

REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES
OF THE
DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1914

PART III
ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT



OTTAWA
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EXCELLENT MAJESTY
1915

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REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Honorable W. B. NANTL,
Minister of Inland Revenue.

SIR,—I have the honour to submit herewith a statement showing the work done by the Chief Analyst and Staff at Ottawa for the year ending the 31st March, 1914

Description.	Genuine.	Doubtful.	Adulterated.	Sold as Compound.	Total.	Remarks.
Maple Sugar	47	1	34	1	83	1 lost through breakage in transit. One should not have been collected.
Maple Syrup	86	3	37		128	
Bay Rum and Florida Water	60	2	4		70	35 Samples Bay Rum, 35 Samples of Florida Water, 4 samples illegally sold.
Tonic Wines	98				98	No Standards Estab'd. Nothing harmful found in samples.
Lime Fruit Juice	5		15		30	10 Slightly below standard.
Cream of Tartar	143		5		148	94 Genuine Commercial Grade. 49 Genuine B.P. Standard.
Fertilizers	338		21		431	27 nearly meets Guarantee, 25 not sufficiently identified.
Seidlitz Powders	82		73		167	12 careless in weighing.
Linseed Oil	36	10	7		53	
Meat Extracts	Apparently genuine.				80	Solid meat extracts.12 Normal meat extracts.25 Fluid meat extracts.42 Meat juice.1
Headache Powders	163		8		171	Total80
Dried and Packaged Fruit.	138	20	17		176	One Sample collected by mistake.
Table Salt					139	No standard established.
Mustard					167	No standard established.

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Description.	Genuine.	Doubtful.	Adulterated.	Sold as Compound.	Total.	Remarks.
Lard	169	1	8	1	182	Three contain excess water.
Gelatin					161	No standard established.
Lard and Lard Substitutes. . .	145 Lard not sold as lard.	7 Lard...	5 Lard. 3 Comp., 2 not sold as lard.	43 Genuine..	243	
Tomato Ketchup . . .					70	No standards.
Ice Cream	77		49		137	8 Slightly below standard, 2 lost 1 sold as imitation.
Tincture of Iodine. . .	62	2	8		72	
Infants and invalids food. . .	86				86	
Flour.	139				139	
Temperance beverages or soft drinks					150	No legal definition.
Butter	342		6		366	18 Passed as within remarkable limits of error.
Cattle medicines.					120	Explained in Bulletin 282.
Ale (beer).					75	Explained in Bulletin 283.
Arsenate of lead.					82	Explained in Bulletin 284.

As stated in the report of last year, the Advisory Board on food standards having completed investigation, in regard to the following food products, standards have been established in connection therewith under the provisions of Sec. 26 of the Adulteration Act :—

Glucose Products.
Vinegar.

The standards covering fruit and fruit products were amended also, in order to define clearly the requirements as respects the labelling of jams, jellies and marmalades when prepared from two or more sorts of fruits.

During the current year it is hoped to complete the installation of branch laboratories at Halifax, Winnipeg and Vancouver, which will facilitate greatly the work of examination of samples and enable this branch of the Department to enlarge considerably the scope of its activities.

(Sgd) J. U. VINCENT,
Assistant Deputy Minister.

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OTTAWA, Sept. 9, 1914.

J. U. VINCENT, Esq.,
Asst. Deputy Minister,
Inland Revenue.

DEAR SIR,—I beg to submit the following report upon the work of these Laboratories for the year ending 31st March, 1914.

Samples of Foods, Drugs and Fertilizers, to the number of 3,825, have been officially collected by our inspectors and submitted to analysis. The results of their examination have been published from time to time in the form of Bulletins, in continuation of the series issued by this Department since 1887.

Number of Bulletin.	Subject.	Number of Samples.
258	Maple Sugar	83
259	Maple Syrup	128
260	Bay Rum and Florida Water	70
261	Tonic Wines	98
262	Lime Juice	30
263	Cream of Tartar	148
264	Fertilizers	431
265	Seidlitz Powders	167
266	Linseed Oil	53
267	Meat Extracts	80
268	Headache Powders	171
269	Dried and Packaged Fruit	176
270	Table Salt	139
271	Mustard	167
272	Lard	182
273	Gelatine	161
274	Lard and Lard Substitutes	243
275	Invalids and Infants' Foods	86
276	Ice Cream	136
277	Flour	141
278	Tincture of Iodine	72
279	Catsup	70
280	Ginger Ale, &c	150
281	Butter	366
282	Cattle Medicines	129
283	Ale (Beer)	75
284	Arsenate of Lead	82
Total		3,825

The following occasional samples have been analysed and reported to the Deputy Minister :

	Samples.
Acetic Acid	67
Arsenate of lead	3
Arsenic	1
Ambergris	1
Barbers' preparations	5
Brandy	1
Butter	245
Beer	45
Butter colour	1

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	Samples.
Basic Slag.....	6
Bran	2
Burnt Barley.....	2
Brewers' Sugar	3
Condensed Milk.....	7
Cream of Tartar.....	11
Canned Peas	1
Clinker.....	1
Cloves	1
Coffee.....	1
Coal oil.....	1
Dried Egg.....	2
Dates.....	1
Dried Blood.....	1
Drug.....	1
Flour.....	17
Fertilizers.....	40
Flavouring Extracts	4
Figs	3
Fusel Oil.....	1
Golden Syrup.....	1
Ginger.....	1
Hoffmann's Drops.....	1
Honey.....	5
Horse Radish.....	1
Ice Cream	6
Ink.....	2
Jam.....	2
Kelp	2
Kieselguhr.....	1
Lard.....	7
Lime Juice	28
Licorice Powder.....	1
Lemon Oil.....	6
Liquid Soap.....	1
Linseed Oil.....	2
Milk Powders.....	4
Maple Butter	6
Maple Sugar	2
Maple Syrup.....	12
Milk	2
Methylated Spirits	7
Mace.....	1
Maple Cheese.....	1
Olive Oil.....	1
Preservaline.....	1
Pepper	2
Patent Medicine.....	1
Rice Meal.....	1
Sausage Preservative.....	2
Strychnine	1
Spirits.....	11
Sugar.....	1
Salt.....	1
Tomatoes.....	1
Tomato Pulp.....	1

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	Samples.
Tea.....	1
Tablets.....	6
Tonic.....	1
Vanilla Extract.....	5
Vanilla Beans.....	1
Vinegar.....	5
Water.....	23
Wine.....	2
Total.....	645

The total number of analysis made is therefore 4470.

For the Excise Branch we have tested 357 samples of Vinagar from factories working in bond; and have supplied to these factories, and to the offices of the Collectors of Inland Revenue the following standardized solutions:

Winchesters of Normal Soda.....	98
Bottles of Normal Acid.....	9
Bottles of Phenolphthalein.....	20
Total.....	127

Investigatory work, having in view the establishment of Food Standards under the 26th Section of the Adulteration Act, has occupied a good deal of time; and the following standards have been authorized by Order in Council as indicated:

Glucose Products (G 1064) June 2, 1913.
Fruit and Products, amendment (G 1080) Sept. 4, 1913.
Vinegar (G 1096) Dec. 29, 1913.

It has long been felt that, having regard to the distance between the eastern and western boundaries of Canada, the establishment of branches of the Laboratory of the Inland Revenue at convenient points would greatly facilitate the effective administration of the Adulteration Act, the Fertilisers Act, and other Acts whose working is entrusted to this Department.

An Order in Council of the 16th October, 1913 provides for the establishment of sub-laboratories at Halifax, Winnipeg and Vancouver; and the erection and development of these will occupy the attention of the Executive of the Department for some time to come.

I have the honour to be, Sir,
Your Obedient Servant,

A. MCGILL.
Chef Analyst.

APPENDIX A.

BULLETIN No. 258 MAPLE SUGAR.

OTTAWA, June 4, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report dealing with eighty-three (83) samples purchased by our inspectors as Maple Sugar in December and January last. Forty-seven (47) samples appear to be genuine, as judged by the standards legalized under Order in Council of October 27, 1911, and published as G. 994.

The remaining thirty-six samples must be regarded as adulterated or at least as doubtful. Two samples (Nos. 51651, 49820), I have judged as doubtful, on account of the analytical numbers coming very near the minima required by the standards; but the last named has since been acknowledged to be compound.

Many of the vendors have written me, since the collection was made, conceding that they knew the article offered as Maple Sugar to be a compound, and saying either that they sold it as such; or that they assumed the purchaser to be aware of the character of the article offered. Our inspectors' invoices and reports show all samples to have been received in answer to a demand for Maple Sugar.

Several samples are called by the manufacturers Maple Cream Sugar, and are invoiced as such to the retailer, who however sells them as Maple Sugar. A glance at the results of analysis of these samples (see Nos. 41509, 51510, 47926) show that they contain no more water than hard sugar, and cannot be regarded in any sense as Creams. Nor do they contain milk fat. The introduction of the word 'Cream' into the name cannot therefore be considered as justified.

There is a substance to be found on the market, commonly known as 'Maple Cream.' This is a soft sugar of somewhat the consistence of cream, and is an intermediate product between Maple Syrup and Maple Sugar. The article offered as 'Maple Cream Sugar' in no way resembles it, and must be held to be a sugar. If the word 'Cream' has any meaning at all in this connection, it can only be intended to call attention to the superiority of the article, as cream is superior to milk. Regarded in this light, it can only be held as an attempt to deceive the purchaser.

Another manufacturer claims that his product is not sold as Maple Sugar, but as M.S. Cakes. The same judgment must be passed upon this article.

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As already stated in many previous reports, a mixture of ordinary sugar with Maple Sugar is a very palatable article, and no ground for complaint can be found for its appearance on the market. But it should be, and must be, plainly declared to be a mixture, or otherwise described in such a way as to prevent deception of buyers.

I beg to recommend publication of this report as Bulletin No. 258.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

Chief Analyst.

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BULLETIN No. 258 -

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA-SCOTIA—

1913.								
Jan. 23	Maple Sugar.	46681	Ryan Bros., Truro, N.S.	1 lb.	20	M. Ross, Springhill, N.S.	Manufacturer.	
" 23	"	46682	R. T. Craig & Co., Truro, N.S.	1 "	20	"	"	

DISTRICT OF PRINCE-EDWARD ISLAND—

Jan. 10	Maple Sugar.	46344	Auld Bros., Charlottetown, P.E.I.	1 lb.	15	Sugars & Cannerners, Ltd., Montreal.		Twin Bar ...
" 10	"	46345	"	1 "	15	Ramsay's Ltd., Montreal.		"
" 10	"	46346	Carvell Bros., Ch. Town, P.E.I.	1 "	15	Sugars & Cannerners, Ltd., Montreal.		Guaranteed pure maple and nothing else.
" 14	"	46347	A. Bowness, Kensington, P.E.I.	1 "	20	"		Twin Bar ...
" 14	"	46348	J. A. Hynes, Kensington, P.E.I.	1 "	20	"		"
" 14	"	46349	J. A. Leslie, Kensington, P.E.I.	1 "	20	Carvell Bros., Ch. Town, P.E.I.		"

DISTRICT OF NEW-BRUNSWICK—

1912.								
Dec. 19	Maple Sugar.	50520	Pidgeon & Co., St. John, N.B.	1 lb.	16	H. S. Goddard, Elgin, N.B.		
" 21	"	50521	Ben. Robertson, St. John, N.B.	1 "	16	Keith & Co., St. John, N.B.		Product of Albert Co. N.B.
" 21	"	50522	Chas. F. Tilton, St. John, N.B.	1 "	20	Unknown.	Unknown.	Vendor would not guarantee purity.
" 23	"	50523	N. C. Scott, St. John, N.B.	1 "	10	"		"
1913.								
Jan. 7	"	50524	Geo. Dunphy, Fredericton, N.B.	1 "	15	Ed. Parent, Upper Queensbury, N.B.		
" 7	"	50525	Currie Bros., Fredericton, N.B.	1 "	15	M. Hagerman, Bear Island, N.B.		
" 9	"	50526	B. H. Smith & Sons, Woodstock, N.B.	1 "	25	Rowell Son & Co., Sherbrooke, P.Q.		
" 15	"	50527	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	20	A. Parlee, Waterford, N.S.		
" 15	"	50528	S. L. Stockton, Petitediac, N.B.	1 "	22	Unknown.	Unknown.	
" 15	"	50529	H. W. Church & Co., Petitediac, N.B.	1 "	15	"	"	

MAPLE SUGAR—Continued.

Results of Analysis									
Water.	Solids.	Lead Num- ber, Cana- dian.	Calculated to Water Free Basis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash	Malic Acid Value.		
						Insol. Ash.			
R. J. WAUGH, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
1.48	98.52	3.90	.....	.....	.....	.....	.....	46681	Genuine.
1.98	98.02	4.38	.....	.....	.....	.....	.....	46682	"
WM. A. WEEKS, INSPECTOR.									
2.24	97.76	0.02	0.06	0.06	0.06	.....	None.	46344	Adulterated.
3.34	96.66	2.31	.....	.....	.....	.....	.....	46345	Genuine.
3.20	96.80	0.04	0.09	0.08	0.01	.....	None.	46346	Adulterated.
0.80	99.20	1.16	0.44	0.28	0.16	1.75	0.26	46347	Adulterated Ticket on box says "Pure Maple Sugar."
1.60	98.40	0.88	0.42	0.29	0.13	2.23	0.12	46348	Adulterated.
2.20	97.80	0.02	0.11	0.06	0.05	1.20	0.08	46349	Adulterated. On box, Guar- anteed pure Maple Sugar.
J. C. FERGUSON, INSPECTOR.									
0.60	99.40	2.44	.....	.....	.....	.....	.....	50520	Genuine.
2.18	97.82	2.81	.....	.....	.....	.....	.....	50521	"
1.10	98.90	2.32	.....	.....	.....	.....	.....	50522	"
1.12	98.88	3.33	.....	.....	.....	.....	.....	50523	"
1.74	98.26	5.49	.....	.....	.....	.....	.....	50524	"
2.78	97.22	2.03	.....	.....	.....	.....	.....	50525	Meets standards.
4.60	95.40	3.29	50526	Genuine.
0.70	99.30	3.46	50527	"
0.80	99.20	4.31	50528	"
0.16	99.84	3.10	50529	"

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BULLETIN No. 258—

Date of Collection	Nature of Sample	No. of Samples	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as Given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufactures.	Furnisher.	
DISTRICT OF QUEBEC—								
1912								
Dec. 23	Maple Sugar	37108	Elzéar Gagnon, 135 Rue D'Orchester, Quebec.	1 lb.	12	Unknown.....	Unknown.....	
" 23	"	37109	J. D. Marier, 136 Rue D'Orchester, Quebec.	1 "	14	"	"	
" 23	"	37110	Boulet & Lamontagne, 105 Rue D'Orchester, Quebec.	2 "	28	Césaire Fillion, Mfr	Chat. Richer	
" 26	"	37111	Jos. Gosselin, 50 Rue D'Orchester, Quebec.	1 "	20	Eubert Mitchell, St. Féréole.	"	
" 26	"	37112	Ed. Verreault, 204 Rue de la Reine, Quebec.	2 "	27	C. Premont, Chat. Richer.	"	
" 26	"	37113	A. Cloutier, 132 Rue Laliberté, Quebec.	1 "	12	Unknown.....	T. B. E. Letellier, Quebec.	
" 27	"	37114	W. Haifield, 60 Rue Ste-Marguerite, Quebec.	1 "	16	Célestin Beaufrivage, St. Michel.	Mfr	
" 27	"	37115	A. Lyonnais, 51 Rue du Pont, Quebec.	2 "	20	Clish Preserv. Co., Joliette Co.	Mfrs	
1913								
Jan. 3	"	37116	L. Desgagne, 914 Rue St. Valier, Quebec.	3 "	45	J. Boilard, Ste. Catherine.	E. Hamel, 45 ave Parment, Co. Portneuf.	
" 3	"	37117	Cantin Frère, Rue St-Joseph, Quebec.	14 "	17	J. D. Paré, St-Raymond.	"	

DISTRICT OF EASTERN QUEBEC—

1912								
Dec. 26	Maple Sugar	53311	T. Theriant, Fraserville.	1 "	20	Unknown.....	Unknown.....	

DISTRICT OF EASTERN TOWNSHIPS—

1913.								
Jan. 28	Maple Sugar	51141	Dean & Lacey, Sherbrooke.	1 "	20	.....	.....
" 28	"	51142	Bernard & Cie, Sherbrooke.	1 "	15	
" 28	"	51143	D. M. Stenson, Sherbrooke.	1 "	15	Vallelandry et frs, Danville, P.Q.	

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MAPLE SUGAR—*Continued.*

Results of Analysis.								No. of Sample	Remarks and Opinion of the Chief Analyst.
Water	Solids	Lead Number, Canadian	Calculated to Water Free Basis.						
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash	Malic Acid Value.		
F. X. W. E. BELAND, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
4.16	95.84	4.36						37108	Genuine.
3.48	96.52	5.32						37109	"
7.05	92.94	4.43						37110	
2.10	97.90	4.51						37111	"
3.46	96.52	5.90						37112	"
1.64	98.36	0.07	0.09	0.06	0.03	2.00	None	37113	Adulterated.
6.44	94.56	3.91						37114	Genuine
1.16	98.82	0.04	0.07	0.07	None		0.03	37115	Adulterated. Manufact- res invoice states "Sp- cialités Composées."
3.44	96.56	6.00						37116	Genuine.
1.56	98.44	7.32						37117	"
A. PELLETIER, INSPECTOR.									
0.52	99.48	5.50						53311	Genuine

J. J. COSTIGAN, ACTING INSPECTOR.

4.96	95.04	4.88						51141	Genuine.
0.80	99.20	4.73						51142	"
0.72	99.28	4.13						51143	"

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BULLETIN No. 258—

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher, as given by the Vendor		Inspector's Report. (Is not an expression of Opinion).
				Quantity	Cents	Manufacturer	Furnisher	
DISTRICT OF EASTERN TOWNSHIPS—								
1913.								
Jan. 28	Maple Sugar.	51144	Lemay et Fissette, 1 1/2 lb.	23				
" 28	"	51145	Sherbrooke, Herbert et Fortier, 1 lb.	14			J. T. Armstrong, Sherbrooke, P.Q.	
" 29	"	51146	Woodman & McKee, Coaticook.	1	15			
" 29	"	51147	B. J. Smith & Son, Coaticook.	1	12			
" 29	"	51148	Lovell Bros., Coaticook.	1	12			
" 29	"	51149	D. S. Bachand, Coaticook.	1	8			
" 30	"	51150	L. Lafrance, Danville, P.Q.	1	12			

DISTRICT OF MONTREAL—

Jan. 13	Maple Sugar.	51111	M. Gallier, 1137 St. Lawrence Blvd., Montreal.	1 blk.	15		S. Zeidler, 765 Cadieux St.	
" 17	"	51112	J. D. Boileau, Bonsecours St., Montreal.	54 lb.	28			
" 17	"	51113	L. Rochon, 524 La-gauchetiere St., E., Montreal.	1	12			
" 17	"	51114	"	1	10			
" 17	"	51115	H. Lagace, 252 Amherst St., Montreal.	1	25			
" 17	"	51116	R. Desautels, 441 Ontario St., E., Montreal.	1	15	Ramsay Bros.	Guerin, Langlois & Cie.	
" 17	"	51117	C. Guay & Co., 313 Ontario St., E., Montreal.	1	15	"	"	
" 17	"	51118	S. Dever & Son, 107 Colonial Ave., Montreal.	1	15			
" 18	"	51119	J. E. Courtemanche, 24 Rachel St., E., Montreal.	1	13		V. Charbonneau, 510 Panet St.	
" 18	"	51120	Geo. Ouellette, 209 DeMontigny, E., Montreal.	1	10	A. Raymond, Montreal.		

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MAPLE SUGAR—Continued.

Results of Analysis.

Water.	Solids.	Lead Num- ber, Cana- dian.	Calculated to Water Free Basis					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash			
						Insol. Ash.	Malic Acid Value.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
5.80	94.20	3.54	.....	.....	.....	.....	51144 Genuine.
9.40	99.60	4.41	.....	.....	.....	.....	51145 "
2.20	97.80	3.35	.....	.....	.....	.....	51146 "
5.40	94.60	4.65	.....	.....	.....	.....	51147 "
2.36	97.64	2.99	.....	.....	.....	.....	51148 "
3.04	96.96	2.20	.....	.....	.....	.....	51149 "
2.65	97.34	0.08	0.12	0.09	0.03	3.00	0.16 51150 Adulterated. Vendor says was bought by him and sold as compound.

J. J. COSTIGAN, INSPECTOR.

0.56	99.44	0.70	0.44	0.25	0.19	1.30	0.02	51111	Adulterated. Wholesaler furnished a warrant of purity to vendor.
2.24	97.76	5.11	.....	.....	.....	.....	.....	51112	Genuine.
5.34	94.66	0.04	0.21	0.17	0.04	4.25	0.03	51113	Adulterated.
3.88	96.12	0.04	0.19	0.14	0.05	2.80	0.04	51114	"
5.00	95.00	4.04	.....	.....	.....	.....	.....	51115	Genuine.
3.02	96.98	0.40	0.33	0.20	0.13	1.53	0.06	51116	Adulterated. Was sold to vendor as pure.
3.04	96.96	1.16	0.42	0.24	0.18	1.33	0.09	51117	Adulterated. Sold as having been re-melted, but pure.
2.50	97.50	4.40	.....	.....	.....	.....	.....	51118	Genuine.
4.34	95.66	0.04	0.04	.....	.....	.....	0.09	51119	Adulterated.
5.60	94.40	0.04	0.32	0.19	0.13	1.46	0.34	51120	Adulterated. A. Raymond later told vendor that the sugar was compound.

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BULLETIN No. 258—

Date of Collection	Nature of Sample.	No. of Sample	Name and address of Vendor.	Cost.		Name and Address, Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1912.								
Dec. 23	Maple Sugar.	51647	J. M. Davison, 1 cake Kemptville.	10	Unknown.	Abbot Grant & Co., Ltd., Brockville.	Sold as Maple Sugar.	
26	"	51648	W. J. Martin, 1 Buckingham.	10	Sugars & Cann- ners, Ltd., Montreal.	.....	Twin Blocks Pure Maple Sugar.	
26	"	51649	P. Lamoureux & 1 Cie, Dalhousie St., Ottawa.	38	Unknown.	Provost & Al- lard, Ottawa	.....
26	"	51650	A. E. Rea & Co., 3 Ltd., Ottawa.	15	M. F. Goddard, Waterloo, P.Q.	Mfr. ....	.....
27	"	51651	Souliere & Trem- 1 blay, Hull, P.Q.	10	Can. Maple Ex- change, Ltd.	J. G. Whyte & Sons, Ottawa	Small's Maple Sugar.	
28	"	51652	R. E. Powell, Wel- 1 lington St., Ot- tawa.	20	M. F. Goddard, Waterloo, P.Q.	Mfr. ....	.....
28	"	51653	Gloucester Trading 1 Co., Rideau St., Ottawa.	17	A. W. Westover, Sutton Jet., P.Q.	"	Pure Maple Sugar.	
31	"	51654	Crabtree & Traws- 3 bridge, Elgin St., Ottawa.	30	W. F. Goddard, Waterloo, P.Q.	.....	Vendors sup- plied the maple syrup to Goddard and he man- ufactured into sugar.	
31	"	51655	D. A. Younghus- 3 band, Elgin St., Ottawa	30	Maple Tree Pro- ducers Asso'n. Montreal.	J. G. Whyte & Sons, Ottawa	Pride of Cana- da—Pure Maple Sugar	
1913.								
Jan. 2	"	51656	G. W. Langdon, 1 Elgin St., Otta- wa.	10	Unknown.	C. E. Plain Ottawa	.....

DISTRICT OF TORONTO

1912.								
Dec. 24	Maple Sugar.	51501	J. Munholland, 455 1 lb. Young St., To- ronto.	20	.....	Maples Ltd., Toronto.	.....
24	"	51502	Kennedy Bros., 1 978 Queen St. E., Toronto.	20	.....	" " "	.....
26	"	51503	Roy Cook, 1914 1 Dundas St. W., Toronto.	20	.....	.....	.....
24	"	51504	E. S. Clark, 2010 1 Dundas St. W., Toronto.	16	.....	McWilliams & Everst, Tor- onto.	.....

SESSIONAL PAPER No. 14

MAPLE SUGAR—*Continued.*

Results of Analysis.									
Water.	Solids.	Lead Number, Canadian.	Calculated to Water Free Basis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash	Malic Acid Value.		
						Insol. Ash.			
J. A. RICKEY, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
0.54	99.46	0.06	0.13	0.09	0.04	2.28	0.25	51647	Adulterated. Furnisher claims to sell as M. S. cakes; not as maple sugar.
4.92	95.08	0.06	0.10	0.07	0.03	2.33	0.05	51648	Adulterated.
4.70	95.30	4.03						51649	Genuine.
2.20	97.80	2.25						51650	"
0.70	99.30	1.91						51651	Nearly meets standard Doubtful.
4.50	95.50	2.97						51652	Genuine.
2.60	97.40	2.50						51653	"
3.86	96.14	3.41						51654	"
0.52	99.48	5.37						51655	"
2.70	97.30	1.44	0.37	0.23	0.14	1.64	0.05	51656	Adulterated.

H. J. DAGER, INSPECTOR.

1.24	98.76	0.02	0.14	0.05	0.09	0.55	0.04	51501	Adulterated.
3.12	96.88	1.24	0.93	0.79	0.14	5.64	0.18	51502	
2.00	97.40	1.08	0.29	0.17	0.12	1.41	0.05	51503	"
0.50	99.50	2.11						51504	Meets standard

5 GEORGE V., A. 1915

BULLETIN No. 258

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO								
1912.								
Dec. 27	Maple Sugar.	51506	F. F. Farewell, 489 1/2 Parliament St., Toronto.	1 lb.	20	.....	Unknown.	.....
" 28	"	51507	Robt. Bell, 4737 1/2 Young St., Toronto.	1 "	20	.....	Davidson & Hay, Ltd., Toronto.	.....
" 28	"	51508	R. Mathews, 509 1/2 Young St., Toronto.	1 "	20	.....	Unknown	.....
1913.								
Jan. 2	"	51500	H. W. Scott, 266 1/2 Spadina Ave., Toronto.	1 "	20	Maples Ltd., Toronto.	Jno. Sloan & Co., Toronto	.....
" 3	"	51510	H. Coxwell, 17 1/2 Howard St., Toronto.	1 "	20	.....	Clewes Bros., Toronto	Sample from Bot labelled pure Maple Cream Sugar "Lion" Br'd Maples Ltd., Toronto.
" 7	"	51585	T. J. Medland, 1 1/2 Ltd., 118 King St., Toronto.	1 "	13	.....	G. H. Hall, Barnston, P.Q.	Sold as pure Maple Sugar

DISTRICT OF WINDSOR—

1913.								
Jan. 2	Maple Sugar.	47901	E. Gallagher, 1 lb. Strathroy.	1 lb.	20	Unknown.	.....	.....
" 2	"	47902	J. C. Fest, Strathroy.	3 bars.	30	"	.....	.....
" 2	"	47903	Wm. Cross, Strathroy.	3 "	25	"	.....	.....
" 2	"	47905	J. Madill, Strathroy.	1 lb.	23	"	.....	.....
" 6	"	47920	Reeks & Co., St. Thomas.	3 bars.	25	.....	M. Masuret & Co., London, Ont.	.....
" 7	"	47925	M. Masuret & Co., London, Ont.	3 "	20	Canada Maple Exchange.	.....	.....
" 7	"	47926	Elliott Marr & Co., London, Ont.	3 "	22	Maples Ltd., Toronto.	.....	Maple Cream Sugar.
" 7	"	47928	A. J. Clark & Co., London, Ont.	3 "	30	Maple Tree Producers Asso., Montreal.	.....	.....

SESSIONAL PAPER No. 14

MAPLE SUGAR.—*Continued.*

Results of Analysis.

Water.	Solids.	Lead Number Canadian.	Calculated to Water Free Basis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.	
			Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash.	Malic Acid Value.			
						Insol. Ash.				
<i>Concluded</i>										
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
0 90	99 10	0 04	0 17	0 10	0 07	1 42	0 01	51506	Adulterated.	
0 50	99 50	0 72	0 46	0 24	0 16	1 50	0 05	51507	"	
5 60	94 40	0 06	0 20	0 13	0 07	1 85	0 03	51508	"	
3 94	96 06	0 24	0 37	0 21	0 16	1 31	0 09	51509	"	Furnisher sell as Maple Cream Sugar.
3 32	96 68	0 10	0 17	0 12	0 05	2 46	0 02	51510	"	"
2 40	97 60	4 02						51585	Genuine.	

JNO. TALBOT, INSPECTOR.

0.54	99.46	0.78	0.36	0.22	0.14	1.57	0.26	47901	Adulterated.
5.74	94.26	0.24	0.34	0.20	0.14	1.48	0.14	47902	"
0.06	99.40	2.48	.....	.....	.....	.....	.....	47903	Genuine.
0.70	99.30	0.56	0.34	0.14	0.20	0.70	0.34	47905	Adulterated.
5.04	94.96	0.26	0.28	0.13	0.15	0.86	0.39	47920	"
3.14	96.86	1.36	0.39	0.20	0.19	1.05	0.21	47925	"
5.80	94.20	0.30	0.26	0.16	0.10	1.60	0.07	47926	" " Maple Cream Sugar."
1.76	98.24	2.74	.....	.....	.....	.....	.....	47928	Genuine.

5 GEORGE V., A. 1915

BULLETIN No. 258—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. Is not an expression of opinion.
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ROCKY MOUNTAINS

1913.								
Jan. 8	Maple Sugar	49813	Choquette Bros., Nelson, B.C.	1 brick	40	N. Beauregard, West Shefford Stn., P.Q.		
Feb. 6	"	49819	C. B. Hume & Co., Revelstoke, B.C.	2 cakes	20	Ramsay Bros., Vanc., B.C.		
" 14	"	49820	Wilson Grocery Co., Kamloops, B.C.	2 "	30	"		
" 14	"	49821	F. Lawrie, Kamloops, B.C.	3 "	30		W. H. Malkin & Co., Vancouver, B.C.	

DISTRICT OF VANCOUVER—

Feb. 25	Maple Sugar	53411	McTaggart's Grocery, Granville St., Vancouver, B.C.	3 cakes	25			
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DISTRICT OF VICTORIA

Jan. 15	Maple Sugar	53502	Acton Bros., 1317 Douglas St., Victoria, B.C.	1 lb.	25		Gavin Bros., Vancouver, B.C.	
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SESSIONAL PAPER No. 14

MAPLE SUGAR.—*Concluded.*

Water.	Solids.	Results Analysis.						No. of Samples.	Remarks and Opinion of the Chief Analyst.
		Lead Number, Canadian.	Calculated to Water Free Basis.						
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash	Insol. Ash.			Malic Acid Value.

THOS. PARKER, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
3.20	96.80	3.20	.....	.....	.....	.....	.....	49813	Genuine.
0.52	99.48	3.01	.....	.....	.....	.....	.....	49819	"
1.64	95.36	1.91	0.57	0.38	0.19	2.10	0.15	49820	Doubtful. Ramsay Bros. claim was sold for compound. Was invoiced as maple sugar.
0.84	99.16	3.18	49821	Genuine.

J. F. POWER, INSPECTOR.

2.50	97.50	1.26	0.47	0.28	0.19	1.46	0.26	53411	Adulterated.
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D. O'SULLIVAN, INSPECTOR.

2.34	97.66	0.92	0.14	0.07	0.07	1.00	0.09	53502	Adulterated.
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SESSIONAL PAPER No. 14

APPENDIX B.

BULLETIN No. 259—MAPLE SYRUP.

Ottawa, June 7, 1913

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I have the honour to submit herewith a report upon 128 samples sold as maple syrup during the period, December, 1912, to April, 1913.

Of this number 86 samples are found to be genuine, in the sense that they meet standards for the article as legalized by Order in Council of October 27, 1911 (G. 994).

One sample was lost through breakage in transit (50515) and one sample was purchased by mistake (37102). This sample was plainly labelled as 'Compound,' and should not have been accepted by our inspector.

Three samples are judged as doubtful: the analytical numbers nearly meet legal requirements; but their character considered in relation to each other, is such as to justify doubt of genuineness.

Thirty-seven (37) samples are adulterated, as failing to meet legal requirements for maple syrup.

In several cases vendors have acknowledged that they sold artificial maple syrup, claiming unintentional oversight.

In many other instances the vendor claims to have acted in good faith, believing the article offered to be genuine maple syrup, having been purchased by him as such. Careful examination of the label, or of the form of warranty furnished by the manufacturer would have led him to see his mistake; and yet one cannot but surmise that, in some cases, the careful wording of these labels or guarantees, shows a desire on the part of the manufacturer to conceal the real nature of his goods.

While it is conceded that a mixture of maple syrup with cane sugar syrup may be a very desirable and entirely wholesome article, it is due to the producer of the genuine article that we require all mixtures of maple syrup with cane sugar syrup, or other wholesome diluent, to be plainly labelled in such a way that the purchaser shall be made fully aware of the nature of the article supplied to him.

I beg to recommend publication of this report as Bulletin No. 259.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,
Chief Analyst

5 GEORGE V., A. 1915

BULLETIN No. 259—

Date of collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher	

DISTRICT OF NOVA SCOTIA—

1913.								
Jan. 17	Maple Syrup.	46671	Bould Bros., Ltd., Halifax, N.S.	1 pt.	26	Maple Tree Pro- ducers Ass'n., Montreal.	Mfrs.	
" 20	"	46672	Shand Bros., Ltd., Windsor, N.S.	1 "	30	D. A. Lavers, Southampton, N.S.	Mfr.	
" 20	"	46673	Murphy & Demont, Windsor, N.S.	1 "	40	Sugars & Cannery, Montreal.	Mfrs.	Pure Maple Leaf Brand
" 22	"	46674	B. H. Doige, Kent- ville, N.S.	1 "	35	Canada Maple Exchange, Can- ada.	"	
" 23	"	46675	Colchester Co. Far- mers Co-op. Ass. Truro, N.S.	1 "	35	T. S. Kidmore, Brown's Brook, N.S.	Mfr.	
" 24	"	46676	B. O. Bishop, Dart- mouth, N.S.	1 "	25	Imperial Syrup Co., Montreal.	Mfrs.	

DISTRICT OF PRINCE EDWARD ISLAND—

Jan. 4	Maple Syrup.	46334	Beer & Goff, Ch. Town, P.E.I.	1 qt.	30	Sugars & Cannery Ltd., Montreal	.....	"Silver Bell" Brand. Pure Maple Syrup
" 7	"	46335	Sanderson & Co., Ch. Town, P.E.I.	2 tins.	70	Imperial Maple Syrup Co., Montreal.	.....
" 8	"	46336	J. C. Crabbs, Ch. Town, P.E.I.	1 qt.	35	Canada Maple Exchange Ltd., Montreal.	.....
" 8	"	46337	W. W. Walker, Ch. Town, P.E.I.	2 bots	70	Standard Maple Exchange Ltd., Montreal.	.....
" 10	"	46338	Peter Trainor, Ch. Town, P.E.I.	1 qt.	40	Sugars & Cannery Ltd., Montreal	.....	"Silver Leaf" Brand guar- anteed to be absolutely pure.

DISTRICT OF NEW BRUNSWICK—

1912.								
Dec. 19	Maple Syrup. Honey.	50510	McPherson Bros., St. John, N.B.	2 bots	70	H. S. Colter, Up- per Keswick, Ridge York Co., N.B.	.....
" 19	Maple Syrup.	50511	W. A. Porter, St. John, N.B.	2 "	60	M. J. Callicutt, Elgin, N.B.	.....	Not sold as pure. Does not guaran- tee its purity was burned in boiling.

5 GEORGE V., A. 1915

BULLETIN No. 259—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1912.								
Dec. 20	Maple Syrup Honey.	50512	Frank E. Williams Co., Ltd., St John, N.B.	2 bots.	70	W. B. Parent & Sons, Upper Queensbury, N.B.		
" 23	"	50513	P. Nase & Son, St. John, N.B.	2 "	70	H. J. Hagerman Upper Bear Island, York Co. N.B.		
1913.								
Jan. 7	"	50514	D. Lenihan, Fredericton, N.B.	1 qt...	30	C. Hallet, Upper Bear Island, York Co. N.B.		
" 7	"	50515	Currie Bros., Fredericton, N.B.	2 bots.	56	A. Rossbrough, Bear Island, York Co. N.B.		
" 9	Maple Syrup.	50516	M. S. Morehouse, Woodstock, N.B.	2 "	70	Imperial Syrup Co., Montreal.		
" 14	"	50517	R. V. Allaby, Norton, N.B.	1 bot.	35	Jas. T. Allaby, Central Norton N.B.		
" 16	"	50518	D. A. McBeath, Moncton, N.B.	1 qt...	40	C. W. Briggs, Stilesville, N.B.		
" 18	Maple Syrup Honey.	50519	J. E. Quinn, St John, N.B.	2 bots.	70	H. J. Hagerman Upper Bear Island, N.B.		

DISTRICT OF QUEBEC

1912.								
Dec. 26	Maple Syrup.	37101	Jos. Goslin, 50 Rue Dorchester, Quebec.	2 bots.	30	Huot, Chateau Mir Richer.		
" 27	"	37102	A. Lyonnais, 51 Rue du Pont, Quebec	1 qt...	25	Ramsay, Ltd....		Sold as Compound.
1913.								
Jan. 7	"	37103	L. F. Martel, Rue du Pont, Quebec.	64 l "	35	F. Beaudoin, Broughton Stn, Beauce Co.		
" 7	"	37104	C. O. Simard, 8 Rue St. Jean, Quebec	1 "	100	E. Albert Norris, Ste. Cecile de Milton.		
" 7	"	37105	F. Savard, 35 Rue St. Jean, Quebec	1 "	35	Tourangeau, Beauce.		
" 13	"	37106	A. Grenier, 94 Rue St. Jean, Quebec	2 bots.	70	Laperrière, St. Gervais, Co., Bellechasse.		
" 13	"	37107	"	2 "	70	Laliberté, Ste. Marguerite Co. Dorchester.		

5 GEORGE V., A. 1915

BULLETIN No. 259-

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Reports. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC

1913.								
Jan.	3	Maple Syrup.	37298 Hamel & Bédard, 728 Rue St. Val- ier, Quebec.	2 bots.	60	Ludger Lawlor, Pont Rouge.		
"	3	"	37299 Cantin et Frère, Rue St. Joseph, Quebec.	2 "	50	A. P. Ker, Que- bec.		
"	3	"	37300 Myrand & Pouliot, 50 Rue de la Cou- ronne, Quebec.	2 "	60	Jos. Thibeau, St- Augustin.		

DISTRICT OF EASTERN TOWNSHIP'S

Jan.	28	Maple Syrup.	51131 Dean & Lacey, Sherbrooke, P.Q.	1 qt...	30	S. R. Adams, Danville, P.Q.		
"	29	"	51132 Woodman & Mc- Kee, Coaticook	1 "	35			
Feb.	11	"	51133 Tenny & Loisel, Waterloo, P. Q.	1 "	40	C. B. Laughlin, Brills, P.Q.		Marked pure..
"	11	"	51134 Neil Bros., Water- loo, P.Q.	1 "	35	John Taylor, Waterloo, P.Q.		
"	11	"	51135 W. R. Horner, Granby, P.Q.	1 tin..	30	F. U. Lynch, Granby, P.Q.		Labelled pure- Maple syrup.
"	11	"	51136 Monty Bros., Granby, P.Q.	1 bot..	30		J. St. Jean, Granby.	
"	11	"	51137 Nelson Mitchell Co., Granby P.Q.	1 qt..	30	E. Streeter, Granby.		
"	11	"	51138 Beaudry & Beauchemin, Granby, P.Q.	1 "	40		J. Olmstead, Milton, P.Q.	
"	12	"	51139 P. Larochelle, Farnham, P.Q.	1 "	50	P. W. Beaudry, East Farnham		
"	12	"	51140 A. Robert, Farn- ham, P.Q.	1 "	50		J. D. Lafond, Freligsburgh, P.Q.	

DISTRICT OF MONTREAL-

Jan.	23	Maple Syrup.	51101 James Graham, 4451 Rue Ste. Cath- erine, West- mount, P.Q.	1 bot.	40			"Silver Sheaf" Brand.
"	23	"	51102 King, Risdon & Co., 2206 Rue Ste. Catherine, Westmount, P.Q.	1 qt..	40	Can. Maple Syrup Ex- change.		
"	23	"	51103 W. J. Winter, 1253 Greene Ave., Westmount, P.Q.	1 "	35	Sugar & Can- ners, Ltd.		"Silver Sheaf" Brand.
"	23	"	51104 J. A. Renaud, 622 Rue St. Antoine, Montreal.	1 "	30			

SESSIONAL PAPER No. 14

MAPLE SYRUP.—*Continued.*

Results of Analysis.

Water.	Solids.	Local Number Canadian.	Calculated to Water Free Basis.					No. of Sample.	Remarks and opinion of the Chief Analyst.	
			Total Ash.	Water soluble Ash.	Insoluble Ash.	Water Sol. Ash.	Malic Acid, Value.			
						Insol. Ash.				
<i>Concluded.</i>										
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
34.62	65.38	4.27	.....	.....	.....	.....	.....	37238	Genuine.	
31.69	68.31	3.06	.....	.....	.....	.....	.....	37299		
32.09	67.91	4.02	.....	.....	.....	.....	.....	37300		

J. J. COSTIGAN, ACTING INSPECTOR.

35.01	64.99	2.00						51131	Genuine.
31.87	68.13	3.20						51132	"
36.69	63.31	3.11						51133	"
35.00	65.00	2.48						51134	"
33.09	66.91	2.52						51135	"
32.79	67.21	2.01						51136	"
33.72	66.28	2.60						51137	"
34.17	65.83	3.26						51138	"
32.66	67.34	2.30						51139	"
33.69	66.31	3.53						51140	"

J. J. COSTIGAN, INSPECTOR.

35.59	64.41	0.22	0.31	0.21	0.10	2.10	None.	51101	Adulterated.
30.67	69.33	0.10	0.29	0.18	0.11	1.65	"	51102	"
39.08	69.92	0.46	0.50	0.35	0.15	2.33	"	51103	"
34.37	65.63	0.06	0.17	0.15	0.02	7.50	"	51104	"

5 GEORGE V., A 1915

BULLETIN No. 259

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vender.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1913.								
Jan. 27	Maple Syrup.	51105	A. Theoret, 384 St. Antoine St., Montreal.	1 qt.	30	J. Mainville, Montreal.		
" 23	"	51106	J. N. Chartrand, 114 Fulford, Montreal	1 "	40	Alex. Petrie, La- chute, P.Q.		
" 24	"	51107	Swift Provision Store 2000 Waverly Mont- real.	1 "	35			
" 24	"	51108	Rappaport Bros., 2088 St. Lawrence Blvd., Montreal.	1 "	20		V. Brosseau, Montreal.	
" 24	"	51109	A. Lamarche, 2101 St. Lawrence Blvd Montreal.	1 bot.	35			
" 24	"	51110	M. Goldberg & Co., 46 Cathcart St., Montreal.	1 qt.	30			
Apr. 14	"	51296	Ramsays Ltd., Nicolet St., Mon- treal.	3 tins.	90	Vendors.		Snow Shoe Brand.
" 14	"	51297		3 bots.	90	"		

DISTRICT OF OTTAWA—

1912.								
Dec. 23	Maple Syrup.	51637	A. Parkinson & Son, Kemptville.	2 bots.	50	W. H. Buchanan, Mfr.		
" 24	"	51638	W. West, Almonte.	1 gal.	100	Thos. Barr, Halls Mills.		
" 26	"	51639	W. J. Martin, Buckingham.	1 bot.	40	Canada Maple Exchange Ltd.	Cole & Co., Montreal.	Labelled "Small's Selected Maple Syrup."
" 26	"	51640	McCallum & La- haie, Bucking- ham.	2 bots.	50	"	H. N. Bate & Sons, Ot- tawa.	Labelled "Pure Maple Syrup." "Monu- ment" Brand
" 28	"	51641	R. E. Powell, Wel- lington St., Ot- tawa.	3 "	75	Maple Tree Pro- ducers' Asso- ciation, Ltd., Montreal		Labelled "Pride of Canada" Pure Maple Syrup, made from the sap of the maple tree and is absolutely pure.
" 28	"	51642	C. M. Ireland, Sparks St., Ot- tawa.	1 bot.	35	A. W. Westover, Mfr.	Sutton J et., P.Q.	Finest Eastern Townships Maple Sy- rup. Guar- anteed pure.

MAPLE SYRUP.—Continued.

Results of Analysis.

Water.	Solids.	Lead Number Canadian.	Calculated to Water Free Basis.				Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash			
						Insol. Ash.			
<i>Concluded.</i>									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
34.85	65.15	0.02	0.18	0.15	0.03	5.00	None	51105	Adulterated Vendor says "compound" sold by mistake.
31.28	68.72	4.36						51106	Genuine.
32.52	67.48	4.20						51107	"
34.79	65.21	0.10	0.19	0.18	0.01		None.	51108	Adulterated
33.63	66.37	2.20						51109	Genuine.
31.66	68.34	4.50						51110	"
58.88	71.12	1.90	0.69	0.43	0.26	1.65	0.45	51296	"
29.13	70.87	1.90	0.61	0.36	0.25	1.44	0.29	51297	"

J. A. RICKEY, INSPECTOR.

30.66	69.34	3.20						51637	Genuine.
32.97	67.21	4.25						51638	"
34.22	65.78	0.10	0.19	0.17	0.02	8.50	0.67	51639	Adulterated.
36.17	63.83	0.20	0.27	0.20	0.07	2.85	0.22	51640	"
31.25	68.75	2.93						51641	Genuine.
32.35	67.65	3.40						51642	"

5 GEORGE V., A. 1915

BULLETIN No. 259—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Dec. 30	Maple Syrup.	51643	Bryson, Graham Ltd., Ottawa.	1 bot.	35	A. Brown, Phil. Mfr. iphsville, Ont.		
31	"	51644	Seely & Stewart, Bank St., Ottawa.	1 " "	40	Maples Ltd., Toronto.		"Old Tyne" Pure Sap Maple Syrup. Guaranteed absolutely pure.
31	"	51645	J. C. Ray, Elgin St., Ottawa.	1 " "	25	Unknown	J. Moynour, Ltd., Ottawa.	Sold as Maple Syrup.
1913.								
Jan. 2	"	51646	Kavanagh Bros., Queen St., Ottawa.	1 qt.	45	G. E. Hall, Mfr Barnston, P.Q.		

DISTRICT OF KINGSTON—

1912.								
Dec. 17	Maple Syrup.	53001	A. Glover, Kingston.	1 qt.	35	Small's		
18	"	53002	Wallbridge & Clark, Belleville.	1 " "	45	C. A. Westover, Freelysburg, P.Q.		
18	"	53003	E. Guillet, Cobourg.	1 " "	40	T. H. Lawrence,		
18	"	53004	Thompson Macdonald, Cobourg.	1 " "	30	G. Safford & Co., Sutton, P.Q.		
19	"	53005	G. O'Brien, Peterboro.	1 " "	30	R. Neill, Waterloo, P.Q.		
19	"	53006	W. H. Hamilton, Peterboro.	1 " "	35	E. B. Hall, Barnston, P.Q.		
19	"	53007	J. B. Bell, Peterboro.	1 " "	35		Canada Maple Exchange Co.	
19	"	53008	E. F. Mason, Peterboro.	1 " "	40	Small's		
19	"	53009	Duthou & Co., Peterboro.	1 " "	40	"		

DISTRICT OF TORONTO—

Dec. 20	Maple Syrup.	51511	J. H. Kerr, 408 Spadina Ave., Toronto.	1 qt.	40		L. H. Lawrence, West Sheldford, P.Q.	Sold as pure Maple Syrup
21	"	51512	John O'Neil, 105 Delaware Ave., Toronto.	1 " "	35		White & Co., Ltd., Toronto.	Guaranteed pure.
23	"	51513	W. Forester, 104 Queen St., East-Toronto.	1 " "	35	Canada Maple Exchange.	Eby Blain Ltd. Toronto.	

SESSIONAL PAPER No. 14

MAPLE SYRUP.—*Continued.*

Results of analysis

Water.	Solids.	Lead Number Canadian.	Calculated to Water Free Basis.					No. of Sample.	Remarks and Opinions of the Chief Analyst.	
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash.	Malic Acid Value.			
						Insol. Ash.				
<i>Concluded.</i>										
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
34 74	65 26	2 88	.....	.....	.....	.....	.....	.....	51643	Genuine.
34 25	65 75	0 22	0 31	0 24	0 07	3 42	0 06	.....	51644	Adulterated.
34 45	65 55	0 10	0 21	0 15	0 06	2 50	0 17	.....	51645	" Vendor ex- plains was maple flavour syrup.
34 51	65 39	3 49	.....	.....	.....	.....	.....	.....	51646	Genuine.

JAS. HOGAN, INSPECTOR.

32 86	67 15	0 34	0 32	0 22	0 10	2 20	None.	53001	Adulterated.
33 67	66 33	3 50						53002	Genuine.
32 42	67 58	2 54						53003	"
33 77	66 23	2 54						53004	"
33 47	66 53	3 56						53005	"
33 67	66 33	2 06						53006	"
34 81	65 79	0 30	0 16	0 12	0 04	3 00	None.	53007	Adulterated.
32 40	67 60	0 36	0 24	0 15	0 09	1 66	"	53008	" Label guaran- tees purity.
34 21	65 79	0 40	0 27	0 17	0 10	1 70	"	53009	Adulterated.

H. J. DAGER, INSPECTOR.

33 52	66 48	2 07						51511	Genuine.
33 33	66 67	4 50						51512	"
36 02	63 38	0 14	0 06				0 15	51513	Adulterated.

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BULLETIN No. 259—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
Dec 26	Maple Syrup.	51514	Birkett Bros., 1916 Dundas St., West, Toronto.	1 qt.	40	Maple Tree Producers Assn., Ltd., Montreal.		"Pride of Canada" pure maple syrup made from sap of maple tree only. Is absolutely pure.
" 27	"	51515	McDonald Bros., 1064 Yonge St., Toronto.	1 "	40	Parsons Brown & Co., Toronto		"Snowshoe" Brand pure maple syrup. Imperial Syrup Co., Montreal.
1913.								
Jan 2	"	51517	Somers Bros., 291 King St., West, Toronto.	1 "	25	Rutherford Marshall & Co., Toronto		
" 2	"	51518	A. Copp, 1005 Dundas St., Toronto.	1 "	45	Parson Brown & Co., Toronto.		Labelled "Old Tyme" pure sap. Maple syrup guaranteed absolutely pure. Maples Ltd., Toronto.
" 2	"	51519	Wm. Forster, 177 Roncesvalles St., Toronto.	1 "	40	G. B. Hall, Barnston, P.Q.		
" 3	"	51520	W. B. Rennick, 389 Church St., Toronto.	1 "	35	Unknown!		"Lion" Brand pure sap Maple Syrup Maples Ltd., Toronto.
" 4	"	51584	F. Spooner, 273 Church St., Toronto.	1 "	35	Canada Maple Exchange.	McLaren's Ltd Toronto.	Small's Selected Maple Syrup. Guaranteed not only pure but of high grade
April 21	"	51598	Maples Ltd., Toronto.	3 pts.	60		Vendors.	"Old Tyme" pure sap maple syrup guaranteed absolutely pure. Canned as it comes direct from the sugar bush.
" 21	"	51599	"	1 qt.	35		"	"
May 8	"	57499	F. G. Parker, Broadview, Toronto	1 "	25		Unknown	Labelled and sold as maple syrup.

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Lead Number Canadian.	Calculated to Water Free Basis						
			Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash	Malic Acid Value.		
						Insol. Ash.			
Concluded.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
34.86	65.14	3.93						51514 Genuine.	
34.04	65.96	2.01						51515 "	
33.25	66.75	0.04	0.15	0.11	0.04	2.75	0.06	51517 Adulterated. Furnisher says was sold as a compound.	
32.87	67.13	2.05						51518 Genuine.	
33.64	66.36	3.58						51519 "	
32.35	67.65	0.24	0.22	0.13	0.09	1.66	0.07	51520 Adulterated.	
33.20	66.80	0.12	0.22	0.17	0.05	3.40	0.19	51584 "	
39.00	61.00	4.16	0.69	0.36	0.33	1.09	0.90	51598 Genuine.	
38.40	61.60	0.76	0.34	0.19	0.15	1.26	0.45	51599 Adulterated.	
38.36	61.64	0.04	0.26	0.21	0.05	4.20	0.02	57409 " Vendor explains was made from sugar and mapleine.	

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BULLETIN No. 259—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON—

1913.								
April 24	Maple Syrup.	57402	O. W. Bessey, 23-24 Market Hall, Hamilton.	1 qt.	25	.....	C. W. Lamy & Sons, Hamilton.	.....
" 24	"	57403	David Green, 43-47 Market Hall, Hamilton.	1 "	30	.....	"	.....

DISTRICT OF WINDSOR—

Jan. 3	Maple Syrup.	47907	Fred. Williams, Woodstock, Ont.	3 jar.	30	J. B. Strong, West Sutton, P.Q.	.....	Guaranteed pure and warranted to be made from maple sap only.
" 3	"	47909	E. J. Coles Co., Woodstock, Ont.	3 "	30	.....	Omer Brown, Delta, Ont.	.....
" 3	"	47912	A. M. Smith & Son, Woodstock, Ont.	2 bots.	50	Maple Tree Producers' Ass'n., Waterloo, P.Q.	.....	"Pride of Canada" Maple Sap Syrup, a genuine maple sap syrup, guar. absol. pure.
" 6	"	47919	Reeks & Co., St. Thomas, Ont.	1 bot.	35	Canada Maple Exchange, Ltd.	.....	Small's selected Maple Syrup, guar. not only pure, but of high grade.
" 7	"	47924	M. Masuret & Co., London, Ont.	1 "	30	"	.....	Small's sel. Maple Syr., guar. pure.
" 7	"	47927	A. J. Clark & Co., London, Ont.	1 "	40	Maples, Ltd., Toronto.	.....	"Lion" Brand pure M. S.
" 7	"	47929	H. Ranahan, London, Ont.	1 "	35	Imperial Syrup Co., Montreal.	.....	"Snowshoe" Br., p. M. S.
" 7	"	47930	Thos. Shaw, London, Ont.	1 "	40	Maple Tree Producers' Ass'n., Montreal.	.....	"Pride of Canada" p. M.S.
" 7	"	47931	Ken. McCormick, London, Ont.	1 "	40	Imperial Syrup Co., Montreal.	.....	"Snowshoe" Brand, pure Maple Syrup.

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Calculated to Water Free Basis.									
		Lead Number Canadian.	Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash	Insol. Ash.	Malic Acid, Value.			

H. J. DAGER, ACTING INSPECTOR, D. M. CAMERON, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
32.80	67.20	0.08	0.14	0.10	0.04	2.50	0.19	57402	Adulterated. Vendor stated after sale that it was not pure.
33.00	67.00	0.04	0.06	0.03	0.03	1.00	0.04	57403	" "

JNO. TALBOT, INSPECTOR.

33.13	66.87	2.53						47907	Genuine.
33.59	66.41	4.14						47909	"
36.89	63.11	3.89						47912	"
34.42	65.58	0.34	0.27	0.19	0.08	2.12	None	47919	Adulterated.
33.84	66.16	0.18	0.33	0.24	0.09	2.66	0.25	47924	"
32.28	67.75	0.82	0.27	0.17	0.10	1.70	None.	47927	"
35.75	64.25	1.28	0.47	0.31	0.16	1.93	0.14	47929	"
33.19	66.81	3.31						47930	Genuine.
32.30	67.70	2.28						47931	"

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BULLETIN No. 259

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
					Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA—								
1913.								
Feb.	6 Maple Syrup.	48816	J. D. Score, Portage Ave., Winnipeg.	1 qt.	50	Maple Tree Producers' Ass'n., Montreal.	Jobin, Marrin & Co., Winnipeg.	
"	6 "	48817	A. Hendry, 398 Portage Ave., Winnipeg.	1 "	50	"	Campbell Bros. & Wilson, Winnipeg.	"Pride of Canada" pure Maple Syrup.
"	6 "	48818	H. E. Weldon & Co., 383 Portage Ave., Winnipeg.	1 "	50	"	The Codville Co., Winnipeg.	
"	6 "	48819	Hudson Bay Co., Main St., Winnipeg.	1 "	45	"	W. L. Mackenzie & Co., Winnipeg.	
"	6 "	48820	J. J. Jackson, 252 Main St., Winnipeg.	1 "	45	"	Campbell Bros. & Wilson, Winnipeg.	
"	6 "	48821	J. G. Hargrave & Co., 334 Main St., Winnipeg.	1 "	45	Imperial Syrup Co., Montreal.	J. D. Brack & Co., Winnipeg.	
"	7 "	48822	J. A. McKerchar, 600 Main St., Winnipeg.	1 "	50	Maple Tree Producers' Ass'n., Montreal.	Campbell Bros. & Wilson, Winnipeg.	
"	7 "	48823	W. H. Stone, 648 Main St., Winnipeg.	1 "	45	"	Foley Bros., Winnipeg.	
"	7 "	48824	Robinson & Co., Main St., Winnipeg.	1 "	45	Imperial Syrup Co., Montreal.	J. D. Brack & Co., Winnipeg.	
"	7 "	48825	Mrs. A. Toby, 321 Notre Dame, Winnipeg.	1 "	65	Maple Tree Producers' Ass'n., Montreal.	Hudson Bay Co., Winnipeg.	"Pride of Canada" pure Maple Syrup.

DISTRICT OF ROCKY MOUNTAINS—

Jan	3 Maple Syrup.	49796	J. Davis & Co., Grand Forks, B.C.	1 qt.	60	Sugars & Cannerns, Ltd., Montreal.		
"	3 "	49797	N. C. McInnis & Co., Grand Forks, B.C.	1 "	50	"	Balfour, Smye & Co., Hamilton.	
"	3 "	49798	J. Donaldson, Grand Forks, B.C.	1 "	60	Maple Tree Producers' Ass'n., Montreal.		
"	3 "	49799	"	1 "	60	Imperial Syrup Co., Montreal.		Snowshoe Brand.
"	8 "	49806	J. Svoboda, Nelson, B.C.	1 can	85	Sugars & Cannerns, Ltd., Montreal.		
"	8 "	49807	Hudson Bay Co., Nelson, B.C.	1 "	100	W. Rock, L'Avener, P.Q.		
"	8 "	49811	Citizens' Coop. Ass'n., Nelson, B.C.	1 "	195	Canada Maple Exchange, Ltd., Montreal.	A. Macdonald, Co., Nelson, B.C.	Smalls...
"	8 "	49812	Choquette Bros., Nelson, B.C.	1 "	225	N. Beauregard, West Shefford Stn., P.Q.		

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MAPLE SYRUP.

Results of Analysis.

Water.	Solids.	Lead Number Canadian.	Calculated to Water Free Basis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.	
			Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Water Sol. Ash	Malic Acid Value.			
						Insol. Ash.				
H. ASHTON, ACTING INSPECTOR.										
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
34.24	65.76	3.00	...	...	...	...	...	48816	Genuine.
29.19	70.81	2.90	...	...	...	...	...	48817	"
31.87	68.13	3.00	...	...	...	...	...	48818	"
34.87	65.13	2.50	...	...	...	...	...	48819	"
35.42	64.56	2.30	...	...	...	...	...	48820	"
33.19	66.81	1.69	0.63	0.37	0.25	1.48	0.37	48821	Doubtful.	
35.11	64.89	3.00	...	...	...	...	...	48822	Genuine.
30.85	69.15	2.70	...	...	...	...	...	48823	"
30.80	69.20	1.64	0.65	0.42	0.23	1.82	0.36	48824	Doubtful.	
31.16	68.84	2.60	...	...	...	...	...	48825	Genuine.

THOS. PARKER, INSPECTOR.

34.44	65.66	0.96	0.36	0.21	0.15	1.40	0.10	49796	Adulterated.
36.72	63.28	2.18						49797	Genuine.
34.16	65.84	3.22						49798	"
33.75	66.25	0.62	0.33	0.21	0.12	1.75	None.	49799	Adulterated.
35.75	64.25	0.74	0.40	0.22	0.18	1.22	0.04	49806	"
33.03	66.97	2.50						49807	Genuine.
32.01	67.99	1.32	0.52	0.32	0.20	1.60	0.21	49811	Adulterated.
35.10	64.90	2.70						49812	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ROCKY MOUNTAINS—								
1913.								
Feb.	1 Maple Syrup.	49814	Hunter Bros., Ross-land, B.C.	1 tin.	150	E. J. Lee, West-Sutton, P.Q.		
"	1 "	49818	Union Co-op. Ass'n., Ross-land, B.C.	1 "	90	East Tp. Maple S. & S. Exchange, Sutton, P.Q.		

DISTRICT OF VANCOUVER—

Feb. 21	Maple Syrup.	53401	David Spencer, Vancouver, B.C.	1 qt.	45	Bakers Ltd., Montreal.		Bottled by vendors.
" 21	"	53402	Frank Wright, Seymour St., Vancouver, B.C.	1 "	50	Maple Tree Producers' Ass'n., Montreal.		Pure Maple Syrup. "Pride of Canada" Brand.

DISTRICT OF VICTORIA—

Jan. 13	Maple Syrup.	49281	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	1 qt	50	Maple Tree Producers' Ass'n., Montreal.		"Pride of Canada" Pure Maple Syrup
" 13	"	49284	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	1 "	50	Canada Maple Exchange, Ltd., Canada.	Nelson, Shakers, Watkins, Ltd.	"Small's Maple Leaf" Brand
" 14	"	49287	Dixie H. Ross & Co., 1317 Govt. St., Victoria, B.C.	1 "	60	Horner, Granby, P.Q.		
" 14	"	49290	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	1 "	60	East T. Maple S. & S. Exchange, Sutton, P.Q.		Guaranteed Pure Maple Syrup.
" 15	"	49295	Copas & Young, 631 Fort St., Victoria, B.C.	1 "	50	Maple Tree Producers' Ass'n., Montreal.		
" 15	"	49297	H. O. Kirkham & Co., 741 Fort St., Victoria, B.C.	1 "	60	"		
" 15	"	49299	Acton Bros., 1317 Douglas St., Victoria, B.C.	1 "	50	"		
" 15	"	49300	"	1 "	50	Canada Maple Exchange, Ltd., Canada.		
" 15	"	53504	Woods & White, 1309 Glatstone Ave., Victoria, B.C.	1 "	50	Sugars & Canners, Ltd., Montreal.		
" 15	"	53506	Wm. Marshall, 1422 Fort St., Victoria, B.C.	1 "	65	Maple Tree Producers' Ass'n., Ltd., Montreal.		

APPENDIX C

BULLETIN No. 260—BAY RUM AND FLORIDA WATER

OTTAWA, 11 June, 1913.

WM. HIMSWORTH, Esq.
Acting Deputy Minister,
Inland Revenue.

SIR,—I have the honour to hand you a report dealing with thirty-five samples purchased as Bay Rum, and an equal number of samples purchased as Florida Water, in February and March last.

Bay Rum is not described in the British Pharmacopoeia. It is defined as Spirit of Myrcia (*Spiritus Myrciae*) in the United States Pharmacopoeia of 1890 (seventh revision) and is there required to be made so that 2,000 cubic centimetres contain 1 220 cubic centimetres of Alcohol (95·1 per cent. volume ethyl alcohol). It is omitted from the Eighth revision of the U.S.P. (1900).

Florida Water has not, so far as I know, ever had any official recognition. It appears to be a solution of essential oils in more or less dilute alcohol.

Complaints have been made, on more than one occasion, to this Department, that the articles above named are sometimes prepared with the unacknowledged use of wood alcohol (Columbian Spirit) instead of ethyl alcohol.

7-8 Edward VII. Chap. six (assented to 10th April, 1908); Sec. 7 is as follows:—

“Section 266 of the said Act (Inland Revenue Act, Chap. 51, R.S., 1906) is amended by adding the following subsection thereto:—

2. Every person who uses methyl alcohol, or spirits containing methyl alcohol, in any form, in any pharmaceutical, medicinal or other preparation intended for external use shall affix to the vessel containing the said preparation a label stating, in black letters not less than one-fourth of an inch in height, the presence of methyl alcohol therein; and every person violating the provisions of this subsection shall incur a penalty not less than fifty dollars and not exceeding two hundred dollars.”

The following samples sold as Bay Rum contain methyl alcohol:—

No. 37185. There is nothing on the label or in the conditions of sale to indicate that methyl alcohol is present. The article is judged to be adulterated; but it may be that the word **ILLEGALLY SOLD** would better describe the case.

No. 37186. Contains methyl alcohol along with ethyl alcohol, and is probably made with methylated spirit. There is nothing on the label to indicate presence of methyl alcohol, and it must be judged similarly to the above.

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No. 51236. Contains methyl and ethyl alcohols. The words "methyl alcohol" are written, scarcely legibly, upon the label, which is a written one; the words "Bay Rum" being however quite distinct. I have judged this case as doubtful; but in strict interpretation of the subsection above-quoted where the presence of methyl alcohol is required to be stated "in black letters not less than one-fourth of an inch in height," there can be no doubt that the article is illegal.

No. 51754. Is made with methyl alcohol. The label is a printed one and reads: "Genuine Imported Bay Rum". The word "Methyl" is written above, and between, the words "Genuine" and "Imported"—and is quite distinct. I have judged the sample as "doubtful" from the fact that the word "Methyl" is not an integral part of the label, as printed.

No. 51593. The sample is made with methyl alcohol. It is labelled "Genuine Imported Bay Rum," and contains no statement of the presence of methyl alcohol. It is therefor sold illegally.

No. 51595. This sample is labelled "Bay Rum," and has no mention of methyl alcohol, which has been used in its manufacture. I have judged it to be adulterated, or sold illegally.

FLORIDA WATER.

No. 46914. Contains methyl alcohol. It is labelled "Royale Florida Water" with no declaration of the presence of methyl alcohol. Illegally sold.

No. 51243. Is labelled "Florida Water" and contains no mention of methyl alcohol, although it is entirely made from this. It is sold illegally.

No. 57051. Is labelled "Florida Water" without mention of methyl alcohol, though made entirely from this. Is illegally sold.

No. 57161. Labelled "Holman's Florida Toilet Water" without mention of methyl alcohol which is present. It is therefore sold illegally.

I beg to recommend publication of this report as Bulletin No. 260.

I have the honour to be, Sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 260—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1913.								
Mar. 6	Bay Rum.	46906	National Drug Co., Halifax, N.S.	1 qt.	90	Michelsen, St. Thomas, W.I.	Mfr	
" 7	"	46907	Kinleys Ltd., Halifax, N.S.	3 bots.	75	Vendors		
" 7	"	46908	Estate of J. R. Rawley, Halifax, N.S.	3 "	75	N. D. & C. Co., Halifax, N.S.	Mfrs	
" 10	"	46909	F. W. Woolworth, Halifax, N.S.	3 "	45	C. H. Selick, New York.	Mfr	
" 27	"	46910	Buckley Bros., Halifax, N.S.	3 "	105	H. Michelsen, W.I.	Lyman Ltd., Montreal.	

DISTRICT OF QUEBEC—

Feb. 25	Bay Rum.	37183	Dr. A. Fournier, Rue Cremasie, Montcalmville.	65 3 bots.	180	W. Brunet & Cie, Quebec.	Mfrs	
" 26	"	37184	Ed. Delisle, Notre Dame des Ange, Quebec.	19 Rue 3 "	450	C. Michelsen, St. Thomas, West Indies.	W. Brunet & Cie, Quebec.	
" 26	"	37185	"	3 "	150	Vendor		
Mar. 6	"	37186	A. E. Francoeur, 379½ Rue St Jean, Quebec.	3 "	195	"		
" 7	"	37187	Alfred Jolicœur, 338 Rue St. Jean, Quebec.	3 "	300	"		

DISTRICT OF MONTREAL—

Mar. 7	Bay Rum.	51236	Dr. J. A. Cham- pagne, Wellin- ton St., Verdun, P.Q.	1½ pts.	150	Vendor		Word Methyl Alcohol writ- ten in on label.
" 10	"	51237	E. Vadboncour, St. Lawrence B., Montreal.	51 3 bots.	100	"		Labelled Gen- uine.
" 10	"	51238	A. F. Larose, Sherbrooke E., Montreal.	2 3 "	75	"		
" 10	"	51239	Dr. Leduc Drug Co., 1181 St. Lawrence B., Montreal.	3 "	75	Vendors		
" 10	"	51240	J. L. Roberge, St. Lawrence B., Montreal.	1231 3 "	75	Vendor		

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BAY RUM.

Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.		Immersion Refractometer Reading 20° C on Alcohol.				Conclusion.		
By Volume.	By Weight.	Theoretical for Ethyl Alcohol.	Theoretical for Methyl Alcohol.	Observed.	Diff. between observed and Theoretical.			

R. J. WAUGH, INSPECTOR.

p. c.	p. c.							
50.8	43.2	84.5	39.2	85.3	0.8	Ethyl Alcohol ..	46906	
55.4	47.7	88.4	39.7	89.4	1.0	" ..	46907	
32.2	26.5	62.8	30.6	62.9	0.1	" ..	46908	
26.5	21.7	53.7	27.6	54.4	0.7	" ..	46909	
50.9	43.3	84.5	39.2	85.3	0.8	" ..	46910	

F. X. W. E. BELAND, INSPECTOR.

45.7	38.5	79.6	37.5	80.3	0.7	Ethyl Alcohol ..	37183	
50.3	42.8	84.0	39.1	84.6	0.6	" ..	37184	
52.1	44.5	85.7	39.3	40.0	0.7	Methyl Alcohol.	37185	Made with wood alcohol. Adulterated.
39.2	32.6	72.5	34.5	51.6	17.1	45% Ethyl Alcohol — 55% Methyl Alcohol.	37186	Made with a mixture of alcohol and wood alcohol. Adulterated.
48.1	40.7	82.0	38.3	82.0	0.0	Ethyl Alcohol ..	37187	

J. J. COSTIGAN, INSPECTOR.

60.2	52.3	92.0	39.6	61.4	21.8	41.6% Ethyl Alcohol — 58.4% Methyl Alcohol.	51236	Made with a mixture of alcohol and wood alcohol. Doubtful.
44.2	37.2	78.2	36.9	78.7	0.5	Ethyl Alcohol ..	51237	
46.7	39.4	80.6	37.9	81.3	0.7	" ..	51238	
44.5	37.4	78.5	37.0	79.5	1.0	" ..	51239	
21.6	17.6	45.5	24.9	45.8	0.7	" ..	51240	

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BULLETIN No. 260—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1913.								
Mar. 3	Bay Rum.	51750	J. Skinner & Son, Ottawa.	1½ pts.	125	Vendors		
Feb. 24	"	51751	J. C. Switzer, Arm prior.	1½ "	100	"		
Mar. 3	"	51752	Halliday & Sproule, Ltd., Ottawa.	1 qt.	100	Jones Bros. & Mfrs Co., Toronto.		
" 4	"	51753	Allen & Cochrane, Ottawa.	24 oz.	75	Vendors		Labelled Imported Bay Rum.
" 6	"	51754	Ottawa Drug Co., Ottawa.	1½ pts.	100	"		Labelled Methyl Bay Rum.

DISTRICT OF TORONTO—

Mar. 1	Bay Rum.	51593	The F. E. Karn Co., Ltd., Queen and Victoria Sts., Toronto.	3 bots.	87	Vendors		Labelled Genuine Imported Bay Rum.
" 1	"	51594	The T. Eaton Co., Ltd., Queen and Yonge Sts., Toronto.	3 "	75	"		Labelled Superior Bay Rum.
" 1	"	51595	G. Tambllyn, 232½ Yonge St., Toronto.	3 "	57	Vendor		
" 1	"	51596	Liggetts Ltd., 224 Yonge St., Toronto.	3 "	57	Vendors		Labelled St. Thomas Bay Rum.
" 10	"	51597	The Hooper Drug Co., Ltd., 83 King St. West, Toronto.	3 "	120		The Drug Trading Co., Ltd., Toronto.	

DISTRICT OF HAMILTON

Apr. 24	Bay Rum.	57156	T. W. Woolworth Co., Ltd., King St. east, Hamilton.	6 bots.	90	Ed. Gerarde Perfume Co., Chicago, Ill.		Labelled Royale Bay Rum. This preparation contains 33½% alcohol.
" 24	"	57157	Stanley Mills Co., Ltd., 11-15 King St. east, Hamilton.	3 "	75		Unknown	Labelled Superior Bay Rum.
" 24	"	57158	T. C. Watkins Co., Ltd., King St. east, Hamilton.	6 "	150		"	Labelled double distilled Bay Rum. H. Michaelson, St. Thomas, West Indies.

SESSIONAL PAPER No. 14

BAY RUM.

Results of Analysis.

Alcohol.		Immersion Refractometer Reading 20 C. on Alcohol.			Diff. between ob- served and Theoretical.		Conclusion.	N o. of Sample.	Remarks and Opinion of the Chief Analyst.
By Volume.	By Weight.	Theoretical for Ethyl Alco- hol.	Theoretical for Methyl Alco- hol.	Observed.	For Ethyl Alcohol.	For Methyl Alcohol.			

J. A. RICKEY, INSPECTOR.

P. C.	P. C.								
57.1	49.3	89.7	39.8	90.4	0.7	...	Ethyl Alcohol ..	51750	
60.6	52.8	92.3	39.6	93.0	0.7	...	"	51751	
50.8	43.2	84.4	39.2	85.2	0.8	...	"	51752	
49.7	42.2	83.5	38.9	84.0	0.5	...	"	51753	
47.1	39.8	81.1	38.0	38.3	...	...	0.3 Methyl Alcohol	51754	Made with wood alcohol. Doubtful. The word "Methyl" is written on a printed label.

H. J. DAGER, INSPECTOR.

67.3	50.6	96.0	38.1	38.5	...	...	0.4 Methyl Alcohol.	51593	Made with wood alcohol. Adulterated.
46.4	39.1	80.3	37.7	81.0	0.7	...	Ethyl ..	51594	
56.8	49.0	89.5	39.8	40.3	...	...	0.5 Methyl ..	51595	Made with wood alcohol. Adulterated.
47.5	40.2	81.5	38.2	81.9	0.4	...	Ethyl ..	51596	
48.1	40.7	82.0	38.3	82.4	0.4	...	"	51597	

H. J. DAGER, ACTING INSPECTOR.

28.4	23.3	56.9	28.6	57.5	0.6	...	Ethyl Alcohol ..	57156	
38.4	31.9	71.6	33.7	71.8	0.2	...	"	57157	
51.0	43.4	84.6	39.4	85.4	0.8	...	"	57158	

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BULLETIN No. 260—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF HAMILTON—								
1913.								
Apr. 25	Bay Rum.	57159	Roy C. Sexsmith, 240 York St., Hamilton.	3 bots	75	Vendor		Labelled Duncan Carson, Phm. B, Hamilton, Ont.
" 25	"	57160	Parke & Parke, 17-20 Market Square, Hamilton.	1 " "	50	Vendors		Labelled Superior Bay Rum. Sold as Barbers' Bay Rum.

DISTRICT OF VANCOUVER—

Mar. 5	Bay Rum.	53421	H. O. Torrence, Davie and Den- man Sts., Van- couver, B.C.	3 bots	65	Vendor		
" 5	"	53422	Harrison's Drug Store, Granville and 7th Sts., Vancouver, B.C.	3 " "	75	"		
" 5	"	53423	Ferguson's Drug Store, 2043 Gran- ville St., Van- couver, B.C.	3 " "	75	H. Michaelson, Nat. Drug Co., St. Thomas, West Indies.		
" 5	"	53424	Cunningham's Drug Store, Den- man and Nelson Sts., Vancouver, B.C.	3 " "	105	Vendor		
" 6	"	53425	Harrison's Drug Store, Rogers Block, Vancou- ver, B.C.	3 " "	75	"		

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BAY RUM.

Results of Analysis.							Conclusion.	No. of Sample.	Remarks and Opinion the Chief Analyst.
Alcohol.		Immersion Refractometer Reading 20°C. on Alcohol.							
By Volume.	By Weight.	Theoretical for Ethyl Alco- hol.	Theoretical for Methyl Alco- hol.	Observed.	Diff. between Ob- served and Theoretical.				
					For Ethyl Alcohol.	For Methyl Alcohol.			

Concluded.

p. c.	p. c.	°		°	°				
36.5	30.3	69.3	32.9	69.3	0.0	.....	Ethyl Alcohol	57159	
24.0	19.6	49.7	26.1	49.9	0.2	.....	"	57160	

J. F. POWER, INSPECTOR.

56.3	48.5	89.1	39.7	89.4	0.3	.....	Ethyl Alcohol.	53421	
50.0	42.4	83.5	38.9	83.9	0.4	.....	"	53422	
50.8	43.2	84.4	39.2	85.3	0.9	"	53423	
59.2	51.4	91.3	39.7	92.1	0.8	"	53424	
50.0	42.4	83.5	38.9	83.9	0.4	"	53425	

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BULLETIN No. 260—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA

1913.								
Mar. 6	Florida Water.	46911	G. A. Burbidge, Halifax, N.S.	3 bots.	75	Lanman & Kemp, Montreal.	N. D. Co., Halifax, N.S.	
" 6	"	46912	National Drug Co., Halifax, N.S.	3 "	50	Vendors, Montreal Branch.		
" 7	"	46913	Kinleys Ltd., Halifax, N.S.	3 "	75	F. F. Ingram Co., Detroit, Mich.	Mfrs	
" 10	"	46914	F. W. Woolworth, Halifax, N.S.	3 "	45	E. Gerarde, Chicago, Ill.	Mfr	
" 27	"	46915	W. H. Stevens, Dartmouth, N.S.	3 "	75	Lanman & Kemp, Montreal.	N. D. Co., Halifax Branch, Halifax, N.S.	

DISTRICT OF QUEBEC

Feb. 24	Florida Water.	37158	Benjamin Crepeault, 68 Rue Ramaise, Montcalmville.	3 bots.	115	Lanman & Kemp, Montreal.	Jos. Amiot & fils, Quebec.	
" 25	"	37159	Dr. A. Fournier, 65 Rue Cremasie, Montcalmville.	3 "	150	Murray & Lanman, New York.	Nat. Drug Co., Montreal.	
" 26	"	37160	Ed. Delisle, 19 Rue Notre Dame des Anges, Quebec.	3 "	150	Murray & Lanman, Montreal.	W. Brunet & Cie, Quebec.	
Mar. 6	"	37161	A. Francœur, 379 1/2 Rue St. Jean, Quebec.	3 "	150	John Taylor, Toronto.	Mfr	
" 7	"	37162	Alfred Jolicœur, 338 Rue St. Jean, Quebec.	3 "	150	Seely Mfg. Co., Windsor, Ont.	Mfrs	

DISTRICT OF MONTREAL

Mar. 7	Florida Water.	51241	Dr. J. Champagne, Wellington St., Verdun, P.Q.	3 bots.	150	Seely Mfg. Co., Windsor, Ont.		
" 10	"	51242	E. Vadboncoeur, St. Lawrence B., Montreal.	3 "	150	Nat. Drug and Chem. Co., Ltd.		"De Leon" Brand.
" 10	"	51243	Dr. Leduc, 1181 St. Lawrence B., Montreal.	3 "	115	C. F. Booth, New York.		
" 10	"	51244	J. L. Roberge, 1231 St. Lawrence B., Montreal.	3 "	150	Lanman & Kemp, Montreal.		
" 10	"	51245	Lymans Ltd., Paul St., Montreal.	3 "	100	Vendors		

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FLORIDA WATER.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Specific Gravity of Sample.	Specific Gravity of Distillate.	Alcohol.		Proof Spirit.	Refractometer reading 20° C.	Methyl Alcohol by Weight.	Residue on Eva- poration.	Ash.	No. of Sample.	
		By Weight.	By Volume.							

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.		p. c.	gram.	gram.		
0 8757	0 8726	69 79	76 72	134 25	105 0	.....	0 446	0 0034	46911	
0 8769	0 8781	67 50	74 67	130 85	104 1	.....	0 040	0 0022	46912	
0 9157	0 9152	51 29	59 14	103 63	94 5	.....	0 066	0 0702	46913	
0 9346	0 9343	2 62	3 28	5 74	41 1	40 0	0 027	0 0142	46914	Contains Methyl Alcohol
0 8754	0 8788	67 21	74 40	130 39	105 0	.....	0 492	0 0043	46915	Illegally sold.

F. X. W. E. BELAND, INSPECTOR.

0 8722	0 8729	69 67	76 71	134 25	104 8	.....	0 467	0 0032	37158	
0 8768	0 8723	69 92	76 83	134 64	105 0	.....	0 521	0 0035	37159	
0 8722	0 8743	69 08	76 09	133 34	104 9	.....	0 444	0 003	37160	
0 8995	0 8997	58 18	65 94	115 09	99 0	.....	0 109	0 0055	37161	
0 8872	0 8856	64 26	71 74	125 63	101 3	.....	0 191	0 0032	37162	

J. J. COSTIGAN, INSPECTOR.

0 8835	0 9003	57 92	65 69	114 11	97 9	.....	0 170	.....	51241	
0 8750	0 8895	62 59	70 14	122 91	101 6	.....	0 055	0 0023	51242	
0 9326	0 9326	43 43	51 02	89 41	40 6	43 43	0 108	0 0139	51243	Contains Methyl Alcohol.
0 8740	0 8794	66 96	74 17	129 99	104 9	0 412	51244	Illegally sold.
0 8720	0 8818	65 92	73 22	128 32	101 3	0 104	0 0057	51245	

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BULLETIN No. 260—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1913.								
Mar. 3	Florida Water.	51755	Halliday & Sproule Ltd., Ottawa.	3 bots.	225	Sovereign Perfumes, Ltd., Toronto.	Mfrs.	"Ideal" Brand.
Feb. 25	"	51756	B. F. Smith, Winchester, Ont.	3 " "	150	"	"	"
Mar. 4	"	51757	T. T. Beattie, Ottawa.	3 " "	150	Seely Mfg. Co., Windsor, Ont.	"	"
" 4	"	51758	R. M. Arbutnot, Ottawa.	3 " "	150	Lanman & Kemp, Montreal.	Unknown.	"
" 6	"	51759	National Drug Co., Ottawa.	3 " "	113	Vendors.	"	"De Leon" Florida Water.
DISTRICT OF TORONTO—								
Feb. 27	Florida Water.	57051	C. Hughel Co., 224½ Parliament St., Toronto.	3 bots.	75	Vendors.	"	"
Mar. 1	"	57052	G. Tambllyn Ltd., 443 Yonge St., Toronto.	3 " "	78	Sovereign Perfume, Ltd., Toronto.	"	Labelled "Ideal Florida Water."
" 7	"	57053	C. B. Borland, 1585 Dundas St. west, Toronto.	3 " "	170	Jno. Taylor & Co., Ltd., Toronto.	"	Labelled "St. Augustine" Florida Water.
" 10	"	57054	Jones Bros. & Co., Ltd., 31 Adelaide St. west, Toronto.	3 " "	100	"	"	Labelled "Jay-Bee-See" Florida Water.
" 10	"	57055	Geo. E. Gibbard, 295 King St. west, Toronto.	3 " "	120	"	F. F. Ingram, Detroit, Mich.	Labelled "Ingrams" Florida Water."
DISTRICT OF HAMILTON—								
Apr. 24	Florida Water.	57161	Brewsters Ltd., 19-21 King St. east, Hamilton.	6 bots.	90	"	Holman, Chicago.	Labelled "Holman's" Florida Toilet Water.
" 24	"	57162	John Mack, James St. north, Hamilton.	13 " "	150	Seely Mfg. Co., Windsor, Ont.	"	Labelled Florida Water.
" 24	"	57163	R. C. Porter, 244 James St. north, Hamilton.	3 " "	150	H. K. Wampole Co., Ltd., Perth, Ont.	"	Labelled "Tallahassee" Florida Water. Dist'd by Mfrs.
" 25	"	57164	A. Patrick, York and Queen Sts., Hamilton.	3 " "	75	"	Nerlich & Co., Toronto.	Labelled Florida Water. Superior quality, made in Germany.
" 25	"	57404	H. P. Teetre, 663 King St. east, Hamilton.	3 " "	120	"	Unknown	Labelled "De Leon" Florida Water extra. Prepared only by Nat. Drug Co.

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FLORIDA WATER.

Results of Analysis.

Specific Gravity of Sample.	Specific Gravity of Distillate.	Alcohol.		Proof Spirit.	Refractometer Reading at 20° C.	Methyl Alcohol by Weight.	Residue on Evap- oration.	Ash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		By Weight.	By Volume.							
J. A. RICKEY, INSPECTOR.										
		p. c.	p. c.	p. c.		p. c.	gram.	gram.		
0.9056	0.9079	54.62	62.45	109.45	96.5	.....	0.066 0.0067		51755	
0.9031	0.9099	53.61	61.45	107.69	95.0	.....	0.053 0.0055		51756	
0.8889	0.8955	60.04	67.73	118.70	99.7	.....	0.062 0.0056		51757	
0.8742	0.8900	62.36	69.92	122.53	102.3	.....	0.445 0.0011		51758	
0.8868	0.9020	57.21	65.01	113.92	98.1	.....	0.061 0.0058		51759	

H. J. DAGER, INSPECTOR.

0.8830	0.8881	63.22	70.73	123.95	38.2	63.22	0.028 0.0045	57051	Contains Methyl Alcohol. Is illegally sold.
0.9068	0.9155	51.17	59.01	103.41	93.5	.....	0.065 0.0066	57052	
0.8948	0.8994	58.32	66.07	115.80	98.5	.....	0.068 0.0022	57053	
0.8831	0.9025	57.00	64.80	113.57	98.5	.....	0.149 0.0713	57054	
0.9131	0.9200	49.16	56.98	99.86	91.9	.....	0.064 0.0033	57055	

H. J. DAGER, ACTING INSPECTOR.

0.9649	0.9647	...	...	...	29.7	24.85	0.040 0.0113	57161	Contains Methyl Alcohol. Is illegally sold.
0.8871	0.8867	63.83	71.30	124.94	101.9	...	0.185 0.0038	57162	
0.9057	0.9058	55.50	63.33	111.00	97.5	...	0.132 0.0036	57163	
0.9328	0.9313	44.05	51.68	90.56	85.0	0.0015	57164	
0.8792	0.8804	73.77	66.52	129.29	103.4	...	0.041	57404	

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BULLETIN No. 260—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER								
1913.								
Mar. 5	Florida Water.	53426	Ferguson's Drug store, Granville and Davie Sts., Vancouver, B.C.	3 bots.	75	Nat. Drug Co., Vancouver, B.C.		
" 6	"	53427	Campbell's Ltd., Hastings and Granville Sts., Vancouver, B.C.	3 " "	75	Seely Mfg. Co., Windsor, Ont.		
" 6	"	53428	Owl Drug Co., Dunsmuir and Granville Sts., Vancouver, B.C.	3 " "	75	Lanman & Kemp, Montreal.		
" 6	"	53429	Vanc. Drug Co., 649 Granville St., Vancouver, B.C.	3 " "	75	Sovereign Perfumes, Ltd., Toronto.		
" 7	"	53430	Broadway Pharmacy, Broadway and Granville Sts., Vancouver, B.C.	3 " "	75	H. K. Wampole, Perth, Ont.		

SESSIONAL PAPER No. 14

FLORIDA WATER.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Specific Gravity of Sample.	Specific Gravity of Distillate.	Alcohol.		Proof Spirit.	Refractometer reading 20° C.	Methyl Alcohol by Weight.	Residue on Eva- poration.	Ash.	No. of Sample.	
		By Weight.	By Volume.							
0.8789	0.8893	63.23	69.79	122.31	106.4	.....	0.041	0.0038	53426	
0.8841	0.8903	61.79	69.38	121.59	100.0	.....	0.158	0.0046	53427	
0.8722	0.8736	69.38	76.35	133.80	105.0	.....	0.508	0.0116	53428	
0.9059	0.9048	55.95	63.78	111.79	97.3	.....	0.081	0.004	53429	
0.9040	0.9042	56.23	64.04	112.26	97.1	.....	0.126	0.006	53430	

J. F. POWER, INSPECTOR.

J. F. POWER, INSPECTOR.

APPENDIX D.

BULLETIN No. 261—TONIC WINES.

OTTAWA, June 24, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I beg to advise you that on June 15, 1910, the Deputy Minister of Inland Revenue suggested the inspection of medicated wines, as sold in Canada. (See L. 71528). This was consequent upon information received to the effect that certain of these wines contained cocaine without acknowledgment of the fact.

A collection of such wines was ordered September 1, 1910; and analysis of the samples was completed. A report of results was on my desk at the time of the burning of our laboratories, January 4, 1911—and was destroyed. Among the salvage we later discovered portions of the books in which the analyst who did the work had entered his first-hand notes. From these it has been found possible to recover sufficient analytical data to justify publication. This forms Part I of the present report.

On August 26, 1912, you advised collection of a further supply (See L. 95872, F. 99147), and in consequence of this, instructions to collect were issued in December of last year. The results of work upon this collection constitute Part II. of this report.

It will be easily understood that the amount of work required in this is very great; and where our inspectors in different districts have sent in samples of the same brand of wine, I have not considered it justifiable in view of the large amount of labour needed in other classes of foods and drugs, to submit every sample to analysis. Thus, there have been sent in ten samples of the wine known at St. Michel in the collection of 1910; and one sample in the collection of this year. Of these eleven samples, four only have been examined and reported.

The information herein given will be of use to physicians, and to those who use medicated wines. It would be invidious to make comparison among these articles, which are mostly, if not in every case, proprietary. It is sufficient to say that nothing is found in any of them which need be harmful to the health of the consumer who uses them intelligently.

Cocaine is not permitted to be present in medicated wines, or in any patent medicine, since the Proprietary or Patent Medicines Act came into force (April 1, 1909). No cocaine has been found in samples reported in Part II.

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Part I. comprises 58 samples representing 29 different brands.

Part II. comprises 40 samples representing, apparently, 38 different brands.

I beg to recommend publication of this report as Bulletin No. 261.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

Chief Analyst.

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BULLETIN No. 261

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1910.							
Oct. 17	Tonic Wine ..	42145	Nat. Drug & Chem. Co., Halifax, N.S.	3 bots.	300	Unknown	Boivin, Wilson, Montreal.
" 18	" ..	42146	J. St. Clair Coombs, Hali- fax, N.S.	3 " ..	300	L. C. Wilson ..	N. D. & C. Co., Halifax, N.S.
" ..	" ..	42147	Grace & Gastonguay, Halifax, N.S.	3 " ..	190	Unknown .....	.....
" ..	" ..	42148	Kelley & Glassey, Hali- fax, N.S.	3 " ..	300	"	J. M. Douglas, Montreal.
DISTRICT OF NEW BRUNSWICK—							
Sept. 12	Tonic Wine ..	45334	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 bots.	213	.....	L. A. Wilson, Montreal.
" 12	" ..	45335	" ..	3 " ..	250	.....	Nat. Drug & Chem. Co., Ltd., Montreal.
" 15	" ..	45336	John O'Regan, St. John, N.B.	3 " ..	213	.....	Boivin, Wilson & Co., Mont- real.
" 15	" ..	45337	" ..	3 " ..	238	.....	Vin de Carmes, Quebec.
" 17	" ..	45338	R. Sullivan & Co., St. John, N.B.	3 " ..	225	.....	J. M. Douglas & Co., Montreal.
DISTRICT OF QUEBEC—							
Sept. 12	Tonic Wine ..	36486	Jos. Masson, 808 Rue St. Valier, Quebec.	3 bots.	225	A. Toussiant & Cie, Quebec.	Dr. Ed. Morin & Cie, Quebec.
" ..	" ..	36487	" ..	3 " ..	225	Unknown	" ..
" 13	" ..	36488	Alphonse Martineau, 784 Rue St. Valier, Quebec.	3 " ..	180	"	" ..
" 13	" ..	36489	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 " ..	225	Fournier & Four- nier, Ltd., St. Hyacinthe.	Mfrs
" 14	" ..	36490	W. Brunet & Cie, 139 Rue St. Joseph, Quebec.	3 " ..	300	Franco - American Chem. Co., Mon- treal.	" ..
DISTRICT OF MONTREAL—							
Sept. 15	Tonic Wine ..	40756	Nat. Drug & Chem. Co., Ltd., Montreal.	3 bots.	113	.....	.....
" 15	" ..	40757	" ..	3 " ..	225	.....	.....
" 27	" ..	40758	Hudon & Orsali, St. Paul St., Montreal.	3 " ..	188	.....	.....
" 27	" ..	40759	" ..	3 " ..	200	.....	.....

SESSIONAL PAPER No. 14

TONIC WINES—PART I.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
	Cos. $\frac{N}{10}$ KOH per 100ccs.	Acidity gms Ttaric Acid per 100ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.	
					Remarks, Alkaloids, etc.	No. of Sample.
R. J. WAUGH, INSPECTOR.						
Vin St. Michel..						42145
Wilson's Invalid Port Wine.						42146
Vin des St. Carmes.	0.63	15.05	18.74	3.69	Principally cinchona alkaloids, 133 mgms. per litre. Trace of cocaine.	42147
Red Heart Tonic Wine.	0.35	17.08	19.37	2.29	Specifically undetermined alkaloids, 58 mgms. per litre	42148
J. C. FERGUSON, INSPECTOR.						
Wilson's Invalid Port.						45334
Vin Mariana			8.07		Alkaloids 70 mgms. per litre. Contains cocaine.	45335
Vin de St. Michel.	0.36	17.55			Specifically undetermined crude alkaloids, 45 mgms. per litre.	45336
Vin des Carmes ..						45337
Red Heart..						45338
F. X. W. E. BELAND, INSPECTOR.						
.....	0.52	15.70	19.58	3.88	Principally cinchona alkaloids. 123 mgms. per litre. No cocaine.	36486
.....						36487
.....	90.33	1.77	4.44	2.67	Quinine by titration gms. per litre 1.409.	36488
.....						36489
.....						36490
J. J. COSTIGAN, INSPECTOR.						
Morin's Wine. Cresol phosphate.	0.32	8.58			Specifically undetermined alkaloids 48 mgms. per litre. Contains cresote.	40756
Vin St. Michel.....						40757
Vin des Carmes.						40758
Vin St. Martin.....	0.68	17.20	21.49	4.29	Principally cinchona alkaloids, 187 mgms. per litre.	40759

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BULLETIN No. 261—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1910.							
Sept. 27	Tonic Wine	40760	Hudon & Orsali, St. Paul St., Montreal.	3 bots.	212		
Oct. 4	"	41063	Dr. C. P. Verdun, Granby P.Q.	3 "	225		
" 5	"	41064	T. H. Welch, Waterloo, P.Q.	3 "	375		
" 10	"	41065	J. H. E. Brodeur, St. Hyacinthe, P.Q.	3 "	150		
" 10	"	41066	" " "	3 "	255		

DISTRICT OF OTTAWA—

Sept. 28	Tonic Wine	43094	The Ottawa Nat. Phar. Ltd., Ottawa.	3 bots.	300	Unknown	Lyman's Ltd., Montreal.
" 7	"	43095	Beattie & Argue, Ottawa.	3 "	300	"	Nat. Drug & Chem. Co., Ltd., Ottawa.
" 8	"	43096	F. W. Day, Ottawa	3 "	300	"	"
" 28	"	43097	D. Belanger, Hull, P.Q.	3 "	300	"	Unknown
" 28	"	43098	Ottawa Drug Co., Ottawa.	3 "	150	Dr. Ed. Morin & Mfrs Cie, Quebec.	

DISTRICT OF KINGSTON—

Oct. 4	Tonic Wine	46529	G. W. Mahood, Kingston.	3 bots.	300		
" 5	"	46530	Geo. Thompson, Kingston.	3 "	225	H. Kola Ltd, Toronto.	
" 5	"	46531	E. Beaupre, Kingston	3 "	300		
" 5	"	46532	R. Lawler, Kingston	3 "	375	The Ont. Grape Growing, St. Catharines.	
" 5	"	46533	J. B. McLeod, Kingston	3 "	300	H. K. Wampole, Perth, Ont.	

DISTRICT OF TORONTO—

Sept. 13	Tonic Wine	47202	The Nat. Drug & Chem. Co., Ltd., Toronto.	3 bots.	200		Boivin, Wilson, Montreal.
" 13	"	47203	G. Tambllyn, 133 Yonge St., Toronto.	3 "	267		Lyman Bros. & Co., Ltd., Toronto.
" 13	"	47204	Hygiene Kola Ltd., 1383 Queen St. west, Toronto.	3 "	200	Vendors	
" 20	"	47205	The Nat. Drug & Chem. Co., Ltd., Hamilton.	3 "	225	L. A. Wilson, Montreal.	
" 27	"	47206	The T. Eaton Co., Ltd., Toronto.	3 "	150	C. Lewis of the T. Eaton Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

TONIC WINES—PART I—*Continued.*

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Cos. $\frac{N}{10}$ KOH per 100ccs.	Acidity gms. Tar- taric Acid per 100ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.	Remarks, Alkaloids, etc.		

Concluded.

Ovonol							40760	
Vin St. Martin							41063	
Vin St. Michel							41064	
Vin Morin							41065	
Vin des Carmes							41066	

J. A. RICKEY, INSPECTOR.

Vin Bonaparte	0.77	20.89	28.17	7.28	Quinine, 206 mgms. per litre.	43094
Iodo-quinique. Carter's Aromatic Quinine Wine.	33.57	7.15	8.85	1.70	Quinine by titration, 0.275 gms. per litre.	43095
Vin St. Michel						43096
Vin des Carmes						43097
Vin Morin						43098

JAS. HOGAN, INSPECTOR.

Wilson's Invalid Port.						46529
						46530
Vinho do Porto	0.50	10.01	12.30	2.29		46531
	0.68	16.92	19.55	2.63	Volatile acid 0.08 p.c.	46532
	0.74	13.29	16.52	3.23	Extract with chloroform gives test for caffeine.	46533

H. J. DAGER, INSPECTOR.

Vin St. Michel						47202
Vin Mariana a la Coca du Peru.					Alkaloids 74 mgms. per litre. Contains cocaine.	47203
Kola Tonic Wine. Kola Celery and Pepsin.						47204
Wilson's Invalid Port.						47205
Lewis Quinine Wine.	78.1	21.40	26.30	4.90	Quinine by titration 1.778 gms. per litre.	47206

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BULLETIN No. 261—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MANITOBA							
1910.							
Nov. 14	Tonic Wine	45804	Auderson's Drug Store, Winnipeg.	3 bots.	300	Unknown	Unknown
" 14	"	45805	The Public Drug Co., Winnipeg.	3 "	300	L. A. Wilson, Montreal.	The Nat. Drug Co., Winnipeg.
" 14	"	45806	The Gordon Mitchell Drug Co., Winnipeg.	3 "	300	Unknown	Vendors.
" 14	"	45807	Harrison Bros., Winnipeg.	3 "	150	The Hygienic Kola Co., Winnipeg.	"
" 14	"	45808	" " "	3 "	150	The Martin Bole Wynn Co., Winnipeg.	"

DISTRICT OF CALGARY—

Sept. 22	Tonic Wine	43929	The Nat. Drug & Chem. Co., Calgary.	3 bots.	300	"	Boivin, Wilson, Montreal.
" 22	"	43930	The Great West Liq. Co., Ltd., Calgary.	3 "	300	L. A. Wilson, Montreal.	"
" 22	"	43931	James Findlay Drug Co., Calgary.	3 "	300	Lyman Sous & Co., Montreal.	"
" 22	"	43932	The Hudson's Bay Co., Calgary.	3 "	300	Mariana, 41 Bd. Hausmann, Paris	"
" 22	"	43933	Calgary Wine & Spirit Co., Calgary.	3 "	300	"	S. B. Townsend & Co., Montreal.

DISTRICT OF VANCOUVER—

Oct. 5	Tonic Wine	38004	Le Patrourel & McRae, Vanc., B.C.	3 bots.	375	L. A. Wilson, Montreal.	"
" 5	"	38005	Gold Seal Liquor Co., Vanc., B.C.	3 "	450	"	W. A. Gilby, Shipped from Portugal.
" 5	"	38006	Georgia Pharmacy, Vanc., B.C.	3 "	300	Ont. Grape Growers' Association.	"
" 5	"	38007	W. M. Harrison, Vanc., B.C.	3 "	300	Northrop & Lyman	"
" 5	"	38008	W. E. Lay, Davis and Granville Sta., Vanc., B.C.	3 "	150	Hudson's Bay Co.	"

SESSIONAL PAPER No. 14

TONIC WINES.—PART I—*Continued*

Inspector's Report. (Is not an expres- sion of Opinion).	Results of Analysis.					Remarks, Alkaloids, etc.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ccs. $\frac{N}{10}$ KOH per 100 ccs.	Acidity gms. Tar- taric Acid per 100 ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.			

A. C. LARIVIÈRE, INSPECTOR.

Vin St. Michel...							45804	
Wilson's Invalid Port Wine.							45805	
Vin St. Michel...							45806	
Kola Tonic Wine..	62.9		10.73	14.35	3.62	Salicylic acid 0.0733 gms. per 100 ccs. gives reaction for caffeine, indicating kola.	45807	
Murray's Orange Quinine Wine.	38.7		3.60	7.01	3.41	Quinine by titration 0.713 gms. per litre.	45808	

R. W. FLETCHER, INSPECTOR.

Vin St. Michel...		0.30	17.80				43929	
Wilson's Invalid Port Wine.							43930	
Lyman's Quinine Wine.	129.9		14.06	18.24	4.15	Quinine by titration 1.490 gms. per litre.	43931	
Vin Tonique Ma- riana.		0.49	6.19 after in- version.	8.17		Cane sugar 0.52 % alka- loids, 70 mgms. per litre. Contains cocaine.	43932	
Vin St. Michel...			17.13			Caramel in considerable amount in all samples Vin St. Michel.	43933	

J. F. POWER, INSPECTOR.

		0.47	10.92			Specifically undetermined alkaloids 45 mgms. per litre.	38004	
		0.37	8.55	10.51	1.96	Specifically undetermined alkaloids 20 mgms. per litre.	38005	
		0.81	19.30	22.41	3.11	Volatile acid 0.06 p.c., alkaloids by crystalliza- tion 102 mgms. per litre, principally quinine. Quinine by titration = 89.6 mgms.	38006	
	41.61		2.88	4.13	1.25	Quinine by titration 0.178 gms. per litre.	38007	
		0.76	15.83	18.69	2.86	Volatile acid 0.16 p.c.	38008	

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BULLETIN No 261—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1910.							
Oct.	20	Tonic Wine	44995	John Cochrane, Victoria, B.C.	3 bots.	300	Lyman's, Ltd., Montreal.
"	20	"	44996	Hall & Co., Victoria, B.C.	3 "	300	F. Stearns & Co., Windsor, Ont.
"	20	"	44997	F. J. Williams, Victoria, B.C.	3 "	300	Nat. Drug & Chem. Co., Victoria, B.C.
"	24	"	44998	Nat. Drug & Chem. Co., Victoria, B.C.	3 "	300	Nat. Drug & Chem. Co., Montreal.
"	24	"	44999	Dean & Hiscocks, Victoria, B.C.	3 "	300	Houde & Co., Vanc.

SESSIONAL PAPER No. 14

TONIC WINES—PART I.—*Concluded.*

Inspector's Report. (Is not an expres- sion of Opinion).	Results of Analysis.					Remarks, Alkaloids, etc.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ces. $\frac{N}{10}$ KOH per 100ccs.	Acidity gms. Tar- taric Acid per 100ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.			

D. O'SULLIVAN, INSPECTOR.

Vin De Veal.....	0.92	17.89	22.96	5.07	Specifically undetermined alkaloids 44 mgms. per litre.	44995
Vin de Stearns....	0.58	7.53	11.65	4.12	Specifically undetermined alkaloids 46 mgms. per litre.	44996
Wilson's Invalid Port.						44997
Quinine Wine....	40.6	1.17	2.30	1.13	Quinine by titration 0.405 gms. per litre.	44998
Kemp's Invalid Port.	0.33	6.82	8.66	1.84		44999

5 GEORGE V., A. 1915

BULLETIN No. 261—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912.								
Dec. 20	Tonic Wine.	51031	Hudson Hebert & Cie, Ltd., St Sulfice St., Montreal.	3 bots.	213			Vin St. Michel.
" 20	"	51032	"	3 "	175			Vin Phosphat au quinquine La Trapp.
" 20	"	51033	"	3 "	175			Vin des Carmes
" 20	"	51034	"	3 "	175			Campbell's Quinine Wine
" 20	"	51035	J. H. Goyer, 1759 St. Lawrence E., Montreal.	3 "	197	Rex Chem. Co.		Rex Quinine Wine.
" 23	"	51036	Hudon & Orsali, St. Paul St., Montreal.	3 "	188			Vin St. Martin.
" 23	"	51037	"	3 "	250			Dubonnet
" 23	"	51038	"	3 "	250			Byrrh
" 23	"	51039	Lyman's Ltd., St. Paul St., Montreal.	3 "	150	Vendors		Lyman's Quinine Wine.
" 23	"	51040	"	3 "	213	H. K. W. Co., Ltd.		Wampole's Digestive Kola Wine
" 26	"	51041	The Nat. Drug & Chem. Co., Ltd., Montreal.	3 "	138	Vendors		Nat. Drug Co. Quinine Wine.
" 26	"	51042	"	3 "	225	L. A. Wilson, Montreal.		Wilson's Invalid Port.
" 26	"	51043	"	3 "	150	Vendors		Carter's Quinine Wine.
" 27	"	51044	John J. Weinfeld, Bleury St., Montreal.	3 "	275			St. David's Invalid Port.
" 27	"	51045	Elp. Ethier, 933 Notre Dame W., Montreal.	3 "	255	F. L. Wooley, Montreal.		Imperial Quinine Wine.
" 27	"	51046	"	3 "	300	Universal Drug Co.		Vin. St. Celestine.
1913.								
Feb. 5	"	51047	The Chapman Dart Co., Craig St. W., Montreal.	3 "	150	Vendors		Watson's Tonic Wine.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II.

Results of Analysis.

Acidity as Tar- tric Acid gms. per 100 ccs.	Alcohol per cent by Volume.	Extract Calc. from sp. gr. gms. per 100 ccs.	Reducing Sugar as Dextrose gms. per 100 ccs.	Cane Sugar.	Non-Sugar Solids.	Quinine by Weight gms. per litre.	Quinine by Titration.	Remarks, Alkaloids, etc.	No. of Sample.	Remarks and Opinion of the Chief Analyst
0.41	14.84	18.63	15.71	0.71	2.75			Crude alkaloids 6 mgms. per litre, strongly col- oured with caramel.	51031	
0.99	13.62	17.43	14.24		3.19	0.066		Cinchona alkaloids 77.3 mgms. per litre. A small amt. of caffeine and aniline dye present.	51032	
0.50	11.75	22.25	13.45	6.94	1.84				51033	
0.37	16.52	3.02	1.60		1.42	1.269	1.232		51034	
0.58	16.33	4.16	2.00		2.16	0.106			51035	
0.66	11.52	21.40	18.03		3.37			Cinchona alkaloids, prin- cipally quinine 153.5. Bears an Inland Re- venue stamp in stock prior to April, 1909.	51036	
0.43	17.86	20.05	18.77		1.28			Principally cinchonidine 93.5 mgms per litre.	51037	
0.44	20.20	13.91	12.04		1.87			Cinchona alkaloids 21.7 mgms. per litre.	51038	
0.81	18.03	12.35	9.59		2.76	1.500	13.93		51039	
0.67	15.14	21.66	18.02		3.62			Caffeine, about 0.75 gms. per litre.	51040	
0.28	16.70	1.50	0.52		0.98	0.447	0.445		51041	
									51042	
0.36	16.33	6.88	3.27	2.66	0.95	0.756	0.729		51043	
0.62	15.86	16.39	13.95		2.44				51044	
0.48	15.77	13.31	5.00	5.46	2.85	0.979	0.955		51045	
0.51	15.68	10.92	8.12		2.80			Cinchona alkaloids 24.3 mgms. per litre. Con- tains an aniline dye.	51046	
0.55	13.90	12.30	3.17	6.19	2.94			Cinchona alkaloids, mostly quinine, some cinchonidine 458.7 mgms. per litre. Con- tains an aniline dye.	51047	

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BULLETIN No. 261—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1913.								
Feb.	6 Tonic Wine.	51048	Lanctot & Brault, 3 bots. St. Lawrence Blvd., Montreal.	300		Henri Lanctot, Montreal.		Vin de Quinquina.
"	6 "	51049	" " 3 "	375		Burroughs, Wellcome & Co., London, Eng.		Vance Tonic Wine.
"	6 "	51050	A. Lefaiivre, 337 3 " Ontario E., Montreal.	200		Vendor ..		Kina Lefaiivre.

DISTRICT OF TORONTO—

Jan.	8 Tonic Wine.	51533	Liggetts Ltd, 224 3 bots. Yonge St., Toronto.	300		United Drug Co., Ltd., Toronto.		Rexall Wine of Cod Liver Extract, containing 24% alcohol.
"	8 "	51534	The T. Eaton 3 " " " Drug Co., Ltd., Toronto.	100		Vendors ..		Lewis Quinine Wine.
"	8 "	51536	The United Drug Co., Ltd., Lake St., Toronto.	103		" ..		Rexall Celery and Iron Tonic.
"	8 "	51537	The Turner Co., Ltd., 106 Front St. east, Toronto.	150		" ..		Turner's Invalid Port.
"	8 "	51538	Hygiene Kola Co., Ltd., 12 Agnes St., Toronto.	225		" ..		Hygiene Kola, Celery and Pepsin.
"	9 "	51539	The Chemists Co. of Canada, Ltd., 92 Sherbourne St. Toronto.	155		" ..		Ontario Chemists Quinine Wine.
"	9 "	51542	The T. A. Lytle Co., Ltd., Sterling Road, Toronto.	125		" ..		Lytle's Medicated Invalid Port.
"	9 "	51543	J. P. Taylor, 1487 Queen St. west, Toronto.	300		E. G. West & Co., Toronto.		" Diamond Brand Invalids' Port' Wine à la quinia du Perou.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II—*Continued.*

Results of Analysis.									No. of Samples.	Remarks and Opinion of the Chief Analyst.
Acidity as Tartaric Acid gms. per 100ccs.	Alcohol per cent. by Volume.	Extract Calc. from sp. gr. gms. per 100ccs.	Reducing Sugar as Dextrose gms. per 100ccs.	Cane Sugar.	Non-Sugar Solids.	Quinine by Weight gms. per litre.	Quinine by Titration.	Remarks, Alkaloids, etc.		

Concluded.

0.60	13.43	16.18	10.13	.....	6.05	0.355	.....	A large proportion of cinchonidine.		51048	
3.30	20.06	24.14	19.84	.....	4.30	.....	.....	Quinine and cinchonidine, 190 mgms. per litre		51049	
0.70	13.15	12.87	10.16	.....	2.71	.....	.....	Quinine 22.6 mgms. per per litre.		51050	

H. J. DAGER, INSPECTOR.

0.55	23.10	13.31	7.51	2.21	3.49	.....	.....	No alkaloids.....		51533	
0.41	8.45	24.91	14.67	7.80	2.44	1.624	1.587	.....		51534	
0.38	18.16	17.12	11.46	0.40	5.26	.....	.....	No alkaloids. Ash = 0.390 gms. per 100ccs. Iron = 0.018 gms. per 100ccs. Fe ₂ O ₃ .		51536	
0.72	12.96	13.49	11.02	.....	2.47	.....	.....	Cinchona alkaloids about 15 mgms. per litre. Contains salicylic acid and an aniline dye.		51537	
0.50	2.50	17.20	8.75	5.45	3.00	.....	.....	Caffeine about 75 mgms. per litre, celery extract present, coloured with caramel. Contains a large amount of salicylic acid.		51538	
0.88	14.84	10.37	7.12	0.46	2.79	0.608	0.567	.....		51539	
0.67	9.13	19.86	15.95	1.22	2.69	.....	.....	Cinchona alkaloids, principally quinine, 43 mgms. per litre. Contains benzoic acid and an aniline dye.		51542	
0.92	9.54	18.35	15.77	2.58	A large amount of salicylic acid and an aniline dye. Trace of alkaloids.		51543	

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BULLETIN No. 261--

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO--

1913.								
Jan.	9	106	51544 Canadian Wine Co., 887 Queen St. west, Toronto.	3 bots.	165	Vendors ...	...	Invalids Fine Old Port Wine.
	11		51548 T. F. Carey, 84 Queen St. west, Toronto.	3 "	210	...	Unknown ...	Royal Crest Port Wine.
	14		51586 G. Tamblin, 1674 Dundas St. west, Toronto.	3 "	255	...	Vendor ...	Wilson's Invalid Port.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II—*Continued.*

Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Acidity as Tartaric Acid gms. per 100ccs.	Alcohol per cent. by Volume.	Extract Calc. from sp. gr. gms. per 100ccs.	Reducing Sugar as Dextrose gms. per 100ccs.	Cane Sugar.	Non-Sugar Solids.	Quinine by Weight gms. per litre.		
						Quinine by Titration.		Remarks, Alkaloids, etc.

Continued.

0.74	11.87	17.58	15.53	.....	2.03	.....	51544	Contains salicylic acid and an aniline dye.
0.71	10.38	15.48	13.17	.....	2.31	.....	51548	A large amount of salicylic acid and an aniline dye.
0.63	15.12	11.86	9.25	.....	2.61	.....	51586	Alkaloids 13 mgms. per litre. Gives test for quinine.

5 GEORGE V., A. 1915

BULLETIN No. 261—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1913.								
JAN. 7	Tonic Wine.	51531	The Nat. Drug & Chem. Co., Ltd., Toronto.	3 bots.	150	Vendors		Na. Drug Co. Beef, Iron and Wine.
" 8	"	51532	G. Tanblyn, 232 1/2 Yonge St., Toronto.	3 " ..	100	Vendor		Tanblyn's Beef, Iron and Wine.
" 8	"	52535	The United Drug Co., Ltd., Lake St., Toronto.	3 " ..	100	Vendors		Predigested Beef, Iron and Wine.
" 9	"	51540	The Druggists' Corporation, 82 Church St., Toronto.	3 " ..	85	"		Beef, Iron and Wine.
" 9	"	51541	F. E. Karn Co., Ltd., Queen & Victoria Sts., Toronto.	3 " ..	75	"		" ..
" 10	"	51545	T. P. Hartley, 411 1/2 Parliament St., Toronto.	3 " ..	90		Toronto Phar. Co., Ltd., Toronto.	" ..
" 10	"	51546	H. O. Wilson, 374 Queen St. west, Toronto.	3 " ..	200	Toronto Phar. Co., Ltd., Toronto.		" ..
" 11	"	51547	The Robt. Simpson Co., Ltd., Yonge & Queen Sts., Toronto.	3 " ..	120	Vendors		Morden's Beef, Iron and Wine.
" 14	"	51549	F. Merck, Danforth Ave. & Main Sts. east, Toronto.	3 " ..	150	H. K. Wampole, Perth, Ont.		Beef, Iron and Wine.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II—*Concluded.*

Results of Analysis.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
Acidity as Tartaric gms. per 100ccs.	Alcohol per cent. by Volume.	Extract Calc. gms. per 100ccs.	Reducing Sugar as Dextrose.	Cane Sugar.	Non-Sugar Solids.	Total Ash.	Iron as Fe ₂ O ₃ .	Total Nitrogen.		

H. J. DAGER, INSPECTOR.

0.40	16.24	18.43	13.31	0.90	4.22	0.435	0.143	0.022	51531	
0.58	14.18	12.20	9.00		3.20	0.239	0.007	0.020	51532	
0.93	24.78	22.59	7.87	6.75	7.97	1.557	0.237	0.294	51535	
0.42	12.58	13.92	6.87	1.38	5.67	0.701	0.064	0.084	51540	
0.72	9.95	18.08	13.90	.....	4.18	0.361	0.206	0.034	51541	
0.15	17.70	9.57	1.67	5.83	2.07	0.205	0.147	0.066	51545	
0.16	17.26	9.08	2.23	4.72	2.13	0.204	0.143	0.058	51546	
0.54	14.74	13.38	7.30	.....	6.08	0.597	0.206	0.248	51547	
0.54	15.68	19.81	16.50	.....	3.31	0.252	0.113	0.034	51549	

APPENDIX E.

BULLETIN No. 262—LIME FRUIT JUICE.

OTTAWA, July 12, 1913.

WM. HUMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—In Bulletins No. 83 (Dec., 1902) and No. 197 (Jan., 1910) were reported studies of Lime Fruit Juice, having for their object the exact definition of the article, under Sec. 26 of the Adulteration Act. This definition became law in February, 1911, by Order-in-Council of that date; and is published as Circular G. 947 by this Department. The Order-in-Council referred to, deals with the general subject of Beverages. So far as Lime Fruit Juice is concerned it contains the followin:

5. LIME JUICE, LIME FRUIT JUICE, is the fresh fruit juice obtained from lime fruit (*Citrus limetta*); has a specific gravity at 20°C. not less than 1·030, and not greater than 1·040, and contains not less than ten (10) per cent of solids and not less than seven (7) per cent of free citric acid. Its optical activity (rotatory power to polarized light) lies between the limits $+ 0^{\circ}5$ and $- 0^{\circ}5$ of the Soleil-Ventzke scale, when observed in a column of 200 mm. length, at 20°C.

Only five samples out of thirty herein reported fully meet the requirements of the legal Standard above. Among the others several approximate more or less closely to it, but at least thirty per cent of the collection gives unmistakable evidence of being reduced by addition of water; or made from a second pressing of the fruit (*Nach-pressé*), which amounts to the same thing. While nothing harmful to health is introduced, it is clearly unfair to the consumer, and to the honest manufacturer, that a diluted fruit-juice should be tolerated on the market, while offered as genuine. If properly labelled, so as to declare the presence of water, no harm would be done, and Sec. 24 of the Act covers such case.

I beg to recommend the publication of this report, rather as a means of drawing public attention to the matter, than as a basis for prosecution. It deals with a very limited inspection, and is the first inspection of Lime Fruit Juice since the legal defining of the article.

SESSIONAL PAPER No. 14

An extensive collection of samples will be made in the near future with a view to enforcing the requirements of the Act.

I beg to recommend the publication of this report as Bulletin No. 262.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 262—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1912.							
Dec. 20	Lime Juice.....	51051	Laporte, Martin Cie, Ltd., St. Paul St., Montreal.	3 bots.	70	Dalton Bros., Toronto.	
" 20	"	51052	" " "	3 " "	94	"	
" 20	"	51053	" " "	3 " "	40	T. A. Lytle Co., Ltd.	
" 20	"	51054	H. E. Archambault, 78 Notre Dame east, Mon- treal.	3 " "	75	"	
" 20	"	51055	J. H. Goyer, 179 St. Law- rence B., Montreal.	3 " "	75	N. D. & C. Co., Co., Ltd.	
" 21	"	51056	M. Albert, St. Lawrence B., Montreal.	3 " "	75	Rose Co., Ltd., London.	
" 23	"	51057	Lymans, Ltd., St. Paul St., Montreal.	3 " "	45	Vendors.....	
" 26	"	51058	Nat. Drug & Chem. Co., Ltd., St. Gabriel St., Montreal.	3 " "	56	"	
" 26	"	51059	" " "	3 " "	69	"	
" 26	"	51060	L. McEwen Co., Ltd., St. Urbain St., Montreal.	3 " "	63	Bottled by ven- dors.	
" 26	"	51061	E. P. Dame, Blewery St., Montreal.	3 " "	75	"	
1913.							
Feb. 4	"	51062	I. Gougeon, Dorchester St. west, Montreal.	3 " "	60	Sutcliffe, Bingham, Ltd., Manchester.	

DISTRICT OF TORONTO—

1912.							
Dec. 19	Lime Fruit Juice	51551	The T. A. Lytle Co., Ltd., Sterling Road, Toronto.	3 bots.	24	Vendors.....	
" 20	"	51552	Fred Coward, 402 Spadina Ave., Toronto.	3 " "	60	"	Cordellio Fruit Co., Toronto.
" 20	"	51553	R. Lawson, 350 Spadina Ave., Toronto.	3 " "	75	"	Unknown.....
" 23	"	51554	The Nat. Drug & Chem. Co., Ltd., 27-29 Well- ington St., Toronto.	3 " "	75	Vendors.....	
" 23	"	51555	Dalton Bros., 11 Front St. east, Toronto.	3 " "	30	"	
" 23	"	51556	E. G. West & Co., 11 George St., Toronto.	3 " "	56	"	

SESSIONAL PAPER No. 14

LIME FRUIT JUICE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total Solids.	Acidity cc. KOH N	Acidity as Citric Acid.	Rotation (2 dm.)	Preservatives.		
J. J. COSTIGAN, INSPECTOR.								
		p. c.		p. c.				
.....	1.033	7.9	92	6.5	- 0.5	Benzoic acid.	51051	Below standard in solids and in citric acid.
"Montserrat".....	1.035	10.0	117	8.19	- 0.2		51052	Genuine.
"Sterling".....	1.025	6.0	74	5.2			51053	Below standard in solids and in citric acid and density. Adulterated under the act.
"Olympia".....	1.034	8.7	102	7.2	- 0.4	Benzoic acid.	51054	Below standard in solids.
"Sovereign".....	1.030	5.9	96	6.72	- 0.2	"	51055	Below standard in solids. Adulterated under the act.
"Rose".....	1.035	8.4	111	7.77	+ 0.3	"	51056	Below standard in solids
"Dominica".....	1.034	10.0	114	7.98	- 0.3	"	51057	Genuine.
"Olympia".....	1.024	7.8	102	7.20		"	51058	Below standard in solids.
"Sovereign".....	1.031	7.2	95	6.65	- 0.2	"	51059	Below standard in solids. Adulterated under the act.
.....	1.017	3.6	54	3.78		Salicylic acid.	51060	Diluted with water. Adulterated under the act.
"Sterling" Lime Fruit Juice.	1.030	6.4	82	5.81	+ 0.3	"	51061	Below standard in solids and in citric acid. Adulterated under the act.
"Kkovah" Brand.	1.025	6.1	79	5.53	- 0.4	"	51062	Below standard in solids and in citric acid. Adulterated under the act.

H. J. DAGER, INSPECTOR.

"Sterling".....	1.027	6.6	82	5.74			51551	Below standard in solids and in citric acid. Adulterated under the act.
"Standard".....	1.026	7.1	50	3.50		Salicylic acid	51552	Below standard in solids and in citric acid; dyed. Adulterated under the act.
"Olympia" Lime Juice.	1.032	8.5	100	7.00		Benzoic acid.	51553	Below standard in solids.
"Sovereign" Lime Juice.	1.030	10.0	98	6.86	- 0.2	"	51554	Genuine.
"D.B. East India" Lime Juice.	1.027	6.2	81	5.67		"	51555	Below standard in solids and in citric acid. Adulterated under the act.
Royal Crest. Non- alcoholic. Vendors were not aware of a standard for Lime Juice until re-	1.020	5.1	65	4.55		Salicylic acid.	51556	"

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BULLETIN No. 262-

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO-							
1912.							
Dec. 23	Lime Fruit Juice	51557	T. E. Robinson, 1098 Queen St. west, Toronto.	3 bots.	75	.....	Unknown
" 24	"	51558	The J. F. Taylor Pharmaceutical Co., Ltd., 355½ Yonge St., Toronto.	3 "	75	Vendors	.....
1913.							
Jan. 7	"	51559	The Lyman Bros. Co., Ltd., 71 Front St. east, Toronto.	3 "	90	.....	Nat. Drug and Chem. Co., Ltd., Toronto.
" 8	"	51560	The T. Eaton Drug Co., Ltd., 190 Yonge St., Toronto.	3 "	50	Vendors	.....
" 9	"	51561	Drug Trading Co., Ltd., 6-8 Ontario St., Toronto.	3 "	52	.....	Maclure & Langley, Ltd., Toronto.
" 10	"	51562	F. H. Page, 186 Carleton St., Toronto.	3 "	75	.....	Drug Trading Co., Ltd., Toronto
" 10	"	51563	Estate of J. R. Lee, Queen and Seaton Sts., Toronto.	3 "	75	.....	Unknown
" 10	"	51564	Breen Drug Co., 216 Queen St. east, Toronto.	3 "	75	.....	Lyman Bros. Co., Ltd., Toronto.
" 10	"	51565	M. E. Bush, 304 College St., Toronto.	3 "	75	.....	Holbrook, Ltd., Toronto.
" 10	"	51566	J. F. Cleary, 409 College St., Toronto.	3 "	75	.....	Unknown.
" 10	"	51567	W. Parkhill, 674 Queen St. west, Toronto.	3 "	75	.....	Dalton Bros., Toronto.
" 11	"	51568	W. Greasers, 593 College St., Toronto.	3 "	75	.....	Nat. Drug. and Chem. Co., Ltd., Toronto.
Apr. 17	Orange Juice....	57165	St. Kitts Bottling Works, John Gallagher, Prop., 35 Centre St., St. Catharines.	3 "	25	Vendors	.....

SESSIONAL PAPER No. 14

LIME FRUIT JUICE—*Concluded.*

Inspector's Report. (It is not an expression of Opinion.)	Results of Analysis.					No. of Sample	Remarks and Opinion of the Chief Analyst
	Sp. gr. of Juice.	Total Solids.	Acidity as K O H.	Acidity as Citric Acid.	Rotation (2 dm.)		
					Preservatives		
H. J. DAGER, INSPECTOR. <i>Concluded.</i>							
	p. c.		p. c.				
cently. They are withdrawing the present product from the market, and putting on an entirely new one to conform to standard.							
"Rose's" Prepared West India Lime Juice.	1.035	9.0	110	7.70	- 0.3	Benzoic acid.	51557 Nearly up to standard.
"Crystal" Pure Clarified West India Lime Juice.	1.026	6.6	75	5.25	- 0.1	Salicylic acid.	51558 Below standard in solids and in citric acid. Adulterated under the act.
"Monteirat" guaranteed pure. Evans Sons, Lescher & Webb, Liverpool.	1.036	10.1	118	8.26	- 0.2		51559 Genuine.
"Eaton's." Pure.	1.031	8.7	98	6.86	- 0.5	Salicylic acid.	51560 Slightly below standard.
"Koyak" Lime Juice. Sutcliffe & Bingham, Ltd., Manchester.	1.026	6.6	88	6.16	.....	"	51561 Below standard in solids and in citric acid. Adulterated under the act.
Stower's Pure Lime Juice, Genuine. Contains no alcohol. Alex. Riddle & Co., Ltd., London.	1.030	8.0	93	6.51	- 0.5		51562 " "
Pure Lime Juice.	1.031	8.7	100	7.00		Benzoic acid.	51563 Nearly meets standard.
Pure Jamaica Lime Juice.	1.035	9.8	113	7.91	+ 0.1		51564 Genuine.
Ross's Prepared West India Lime Juice. L. Ross & Co., Ltd., London, Leith and West India.	1.035	9.0	110	7.70	- 0.3	Benzoic acid.	51565 Nearly meets standard.
Rowat & Co., mfrs., Glasgow.	1.024	6.1	77	5.39	.....		51566 Below standard in solids and in citric acid. Adulterated under the act.
Dalton's West India Lime Juice Imported and bottled by Dalton Bros., Toronto.	1.070	17.2	74	5.18	- 11.3	Benzoic acid.	51567 Contains sugar. Below standard in citric acid. Adulterated under the act.
Olympia Lime Juice.	1.032	8.6	103	7.21	.....	"	51568 Nearly meets standard.
Labelled St. Kitts Orange Juice.	1.0434	11.5	340	2.38	- 13.8	.....	51165 Contains 4.8 p.c. sugar and is dyed. Is artificial.

SESSIONAL PAPER No. 14

APPENDIX F.

BULLETIN No. 263—CREAM OF TARTAR.

OTTAWA, July 15, 1913.

WM. HIMSWORTH, ESQ.,
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to report upon a collection of 148 samples of Cream of Tartar purchased throughout Canada in February and March of this year,

The last inspection of Cream of Tartar was made in 1910, and the results of analysis are published in Bulletin No. 222. In that report I suggested the advisability of legalizing a standard for a commercial grade of Cream of Tartar, less exacting than that fixed by the British Pharmacopoeia. The B.P. standard described is that for a highly refined article, containing not less than 97.5 per cent of Bi-tartrate of potash.

It will be seen that 49 samples of the present collection reach this high standard, while 94 samples of good quality, and containing about 90 per cent of Bi-tartrate of potash, are relegated to what I have designated as the commercial grade, falling a few per cent lower than B.P. requirements.

Five samples are adulterated as containing starch and other foreign matters.

I beg to recommend publication of this report as Bulletin No. 263.

I have the honour to be, Sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 263

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA							
1913.							
Mar.	6 Cream of Tartar.	46936	National Drug Co., Halifax, N S.	$\frac{3}{4}$ lb.	30	Vendors.	
"	6 "	46937	Wm. Moore, Halifax, N.S.	$\frac{3}{4}$ "	25	J. P. Mott & Co., Mfrs. Halifax, N S.	
"	6 "	46938	R. B. Seeton & Co., Halifax, N.S.	$\frac{3}{4}$ "	21	W. H. Schwartz & Sons, Halifax, N.S.	
"	10 "	46939	A. J. Baker, Halifax, N.S.	$\frac{3}{4}$ "	30	J. P. Mott & Co., Halifax, N.S.	
"	10 "	46940	Dillon Bros., Halifax, N.S.	$\frac{3}{4}$ "	30	"	
"	10 "	46941	W. J. Hoggood & Son, Halifax, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Halifax, N.S.	
"	11 "	46942	E. Donohue & Son, Halifax, N.S.	$\frac{3}{4}$ "	21	"	
"	11 "	46943	Jno. P. Mott & Co., Halifax, N S.	$\frac{3}{4}$ "	Nil.	Vendors.	
"	24 "	46944	McCulloch, Creelman & Morrison, Truro, N S.	$\frac{3}{4}$ "	18	Puddington, Mrs. Wetmore & Morrison, St. John, N. B.	
"	27 "	46945	Forsyth Jr., Dartmouth, N.S.	$\frac{3}{4}$ "	30	J. P. Mott & Co., Halifax, N.S.	
DISTRICT OF PRINCE EDWARD ISLAND							
Feb.	27 Cream of Tartar.	46389	L. A. Haszard, Ch. Town, P.E.I.	$\frac{3}{4}$ lb.	30	E. W. Gillett Co., Ltd., Toronto, Ont.	
"	28 "	46390	A. Gates & Co., Ch. Town, P.E.I.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Halifax, N.S.	
"	28 "	46391	Beer & Goff, Ch. Town, P.E.I.	$\frac{3}{4}$ "	30	J. P. Mott & Co., Halifax, N.S.	
"	28 "	46392	P. N. Rowe, Ch. Town, P.E.I.	$\frac{3}{4}$ "	30	N. Rattenbury & Co., Ch. Town	
Mar.	5 "	46393	S. Beaton, Bonshaw, P.E.I.	$\frac{3}{4}$ "	30	E. W. Gillett Co., Toronto.	
"	5 "	46394	Lord Co., Cape Traverse, P.E.I.	$\frac{3}{4}$ "	30	Dearborn & Co., Ltd., St. John, N.B.	
"	6 "	46395	P. D. Hogan, Tyrone, P.E.I.	$\frac{3}{4}$ "	30	White Swan Spices & Cereals Ltd., Toronto.	
"	7 "	46396	J. A. Farquharson & Co., Ch. Town, P.E.I.	$\frac{3}{4}$ "	30	J. P. Mott & Co., Halifax	
"	7 "	46397	Carvell Bros., Ch. Town, P.E.I.	$\frac{3}{4}$ "	25	Crown Spice Mills, Halifax	
April	25 "	46398	Dr. F. W. Jardine, Kensington, P.E.I.	$\frac{3}{4}$ "	25	The Nat. Drug & Chem. Co., Halifax.	

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. Is not an expression of opinion.)	Results of Analysis							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity O.C. N. per 100 grams.	Bitartrate of po- tash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al O ₃).	Free Tartaric Acid.	
R. J. WAUGH, INSPECTOR.									
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	495	93 Present.	...						46336 Genuine. Com.
	495	93 "	...						46337 " "
	495	93 "	...						46338 " "
	500	94 "	...						46339 " "
	500	94 "	...						46340 " "
	500	94 "	...						46341 " "
	506	94 "	...						46342 " "
	495	93 "	...						46343 " "
	495	93 "	...						46344 " "
	500	94 "	...						46345 " "
WM. A. WEEKS, INSPECTOR.									
	525	98	...						46389 Genuine. B.P.
	500	94 Present	...						46390 Genuine. Com.
	500	94 "	...						46391 " "
	490	92 "	...						46392 " "
	525	98	...						46393 Genuine. B.P.
	495	93 Present.	...						46394 Genuine. Com.
	495	93 "	...						46395 " "
From Crystal's Im- ported by J. A. Far- quharson Son & Co.	475	89 "	...						46396 " "
	510	95 "	...						46397 " "
	515	96 "	...						46398 " "

5 GEORGE V., A. 1915

BULLETIN No. 263—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnish

DISTRICT OF NEW BRUNSWICK—

1913.							
Feb. 25	Cream of Tartar	50565	H. W. Cole, Ltd., St. John, N.B.	3 pkgs	30	Vendors	
" 25	"	50566	Dearborn & Co., Ltd., St. John, N.B.	3 " "	18	"	
" 27	"	50567	Baird & Peters, St. John, N.B.	3 " "	7	"	
" 27	"	50568	Puddington, Wetmore, Morison, St. John, Ltd., N.B.	3 " "	21	"	
Mar. 7	"	50569	W. A. Simonds, St. John, N.B.	3 " "	60	E. W. Gillett Co., Ltd., Toronto.	
" 7	"	50570	Jones & Schofield, St. John, N.B.	3 " "	18	.....
Apr. 7	"	50571	G. E. Barbour Co., Ltd., St. John, N.B.	3 " "	18	Vendors	
" 18	"	50572	C. W. Lewis, Perth, N.B.	3 " "	30	A. W. Hugman, Ltd., Montreal.	
" 23	"	50573	J. A. Davidson, Sussex, N.B.	3 " "	30	Scott's Extract Co., St. John, N.B.	
" 24	"	50574	Reed & Co., Ltd., Moncton, N.B.	3 " "	25	Jno. P. Mott & Co., Halifax, N.S.	

DISTRICT OF QUEBEC—

Feb. 25	Cream of Tartar.	37148	H. M. Côté, 23 Chemin St. Foie, Quebec.	3 pkgs	60	E. W. Gillett Co., Toronto.	J. B. Reneaud & Cie, Quebec.
Mar. 3	"	37149	Jos. F. Goslin, 50 Rue D'orchester, Quebec.	3 " "	30	"	Turcot & Frère, Quebec.
" 4	"	37150	Charle Martel, 49 Rue Artillery, Quebec.	3 " "	30	The Lister Pure Food Co., Toronto.	Mfrs.....
" 6	"	37151	J. Noel Rondeau, 6 Rue Lachevrotière, Quebec.	3 " "	30	"	"
" 7	"	37152	J. P. Miller, 152 Rue St. Jean, Quebec.	3 " "	30	E. W. Gillett Co., Toronto.	Whitead & Turner, Quebec.
" 10	"	37153	H. Devarenne, Sillery, Quebec.	3 " "	30	"	Mfrs.....
" 10	"	37154	Thom. Kenny, 258 Rue Champlain, Quebec.	3 " "	30	"	"
" 11	"	37155	A. D. Lachance, Lacarnière, Quebec.	3 " "	30	Herron & Leblanc, Montreal.	Quebec Preserving Co., Quebec.
" 11	"	37156	Charle Clouet, Beauport, Quebec.	3 " "	30	E. W. Gillett Co., Toronto.	J. B. Reneaud & Cie, Quebec.
" 12	"	37157	Mulcaigne & Bros., 21 Rue St. Michel, Quebec.	3 " "	30	.....	C. H. Cochrane & Co., Ottawa.

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. N. per 100 grams.	Bitartrate of pot- ash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al ₂ O ₃).	Free Tartaric Acid.	

J. C. FERGUSON, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
"Thistle" Brand	500	94	Present.	..	.....	.....	.....	.....	50565	Genuine. Com.
"	530	99	.....	.....	.....	.....	.....	.....	50566	" B.P.
"	520	97	Present.	.....	.....	.....	.....	.....	50567	" "
"	490	92	"	.....	.....	.....	.....	.....	50568	" Com.
"	520	97.2	.....	.....	.....	.....	.....	.....	50569	" B.P.
"Holly" Brand	500	94	.....	.....	.....	.....	.....	.....	50570	" Com.
"Acorn" Brand	520	98	.....	.....	.....	.....	.....	.....	50571	" B.P.
Hugman's Green Label.	475	89	Present.	.....	.....	.....	.....	.....	50572	" Com.
"	430	92	"	.....	.....	.....	.....	.....	50573	" "
"	495	93	"	.....	.....	.....	.....	.....	50574	" "

F. X. W. E. BELAND, INSPECTOR.

	520	97.6	.....	.....	.....	.....	.....	.....	37148	Genuine. B.P.
	525	99	.....	.....	.....	.....	.....	.....	37149	" "
	500	94	Present.	.....	.....	.....	.....	.....	37150	" Com.
	500	94	"	.....	.....	.....	.....	.....	37151	" "
	525	99	.....	.....	.....	.....	.....	.....	37152	" B.P.
	520	98	.....	.....	.....	.....	.....	.....	37153	" "
	530	99.7	.....	.....	.....	.....	.....	.....	37154	" "
	195	15.90	8.96	2.06	5.10	1.85	.....	.....	37155	Adulterated.
	525	98	.....	.....	.....	.....	.....	.....	37156	Genuine. B.P.
	480	90	Present.	.....	.....	.....	.....	.....	37157	" Com.

5 GEORGE V., A. 1915

BULLETIN No. 263—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
Mar. 17	Cream of Tartar.	57219	G. H. Read, St. Felix de Valois.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.	
" 17	"	57220	Thos. Guibord, St. Felix de Valois.	3 "	30	"	
" 17	"	57225	Jos. Mosseau, St. Felix de Valois.	3 "	45	"	
" 22	"	57239	C. Barrette, Joliette, P.Q.	3 lb.	30	Dalley, Hamilton.	
DISTRICT OF EASTERN TOWNSHIPS—							
Mar. 10	Cream of Tartar.	1512	L. T. Paradis, Victoriaville.	3 lb.	30		L. Chaput fils & Cie, Montreal.
" 10	"	1523	Maison Normandie, Victoriaville.	3 pkgs	25	S. H. Ewing & Sons, Montreal.	
" 13	"	1524	J. E. Gagne, Scott's	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 17	"	1525	Ang. Provencher, Windsor Mills.	3 "	30	Pure Gold Mfg. Co., Toronto.	
" 17	"	1526	A. N. Hutton, Richmond.	3 "	30	White Swan Spices & Cereals Ltd., Toronto.	
" 18	"	1527	J. Audet, jr., Coaticook.	3 "	30	S. H. Ewing & Sons, Montreal.	
" 18	"	1528	White & Wiggett, Lennoxville.	3 "	25	Pure Gold, Toronto.	
April 16	"	1529	J. H. Vilandre & Cie, Danville.	3 "	25	The F. F. Dalley Co., Ltd. Hamilton.	
" 17	"	1530	J. A. Lavoie, Danville.	3 "	30	E. W. Gillett Co. Ltd., Toronto.	
" 17	"	1531	E. Turgeon, Roxton Falls	3 "	"	"	
DISTRICT OF MONTREAL—							
Mar. 11	Cream of Tartar.	51246	Dupuis Frere, St. Catherine St. East, Montreal.	3 pkgs	25	A. W. Huguan, Ltd., Montreal.	
" 11	"	51247	E. Goudry, 31 Laurier Ave. West, Montreal.	3 "	30	E. W. Gillett Co. Ltd. Toronto.	
" 17	"	51248	H. Russell, 847 St. Catherine West, Montreal.	3 tins.	30	McLaren's Ltd.,	
" 17	"	51249	S. J. Geddes, 705 St. Catherine West, Montreal.	3 pkgs	30	S. H. Ewing & Son.	
" 17	"	51251	W. Brouillet, 555 University St., Montreal.	3 "	15	McLaren's, Ltd.	
" 18	"	51252	A. Poirais, Mt. Royal Ave., West, Montreal.	3 "	30	The Litsea Pure Food Co., Ltd.	
" 18	"	51253	G. E. Beauvais & Cie, Sherbrooke W., Montreal.	3 "	15	S. H. Ewing & Son.	

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BULLETIN No. 263—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913.							
Mar. 13	Cream of Tartar.	51346	J. Z. Daoust, Valleyfield, P.Q.	3 pkgs	30	The Litster Pure Food Co., Ltd.	
" 13	"	51347	The Industrial Co-Op. Society, Ltd., Valleyfield, P.Q.	3 " "	30	F. F. Dalley Co., Ltd.	
" 19	"	51348	McCuaig, Cheney & Co, Vank-leek Hill, Ont.	3 " "	30	Pure Gold Mfg. Co., Ltd.	
" 20	"	51349	A. M. Steele, Hawkesbury, Ont.	3 " "	30	Birks Corner Co., Montreal.	
" 24	"	51350	D. J. McDonald, Alexandria, Ont.	3 " "	30	F. F. Dalley Co., Ltd.	
" 24	"	51351	" " "	3 " "	30	Forbes Bros., Montreal.	
" 24	"	51352	John Boyle, Alexandria, Ont.	3 " "	30		
" 24	"	51353	A. Markson, Alexandria, Ont.	3 " "	30	J. V. Boudrais, Montreal.	
" 24	"	51354	E. J. Devers, Alexandria, Ont.	3 " "	30	T. W. Chamberlin Co., Prescott.	

DISTRICT OF OTTAWA—

Feb. 21	Cream of Tartar.	51703	T. F. Dextras, Cornwall.....	3pkgs	30	Gorman, Eckert & Co., Ltd., London, Ont.	Mfrs
" 22	"	51721	Thos. Stevens, Carleton Place.	3 "	50	Geo. Robertson & Son, Kingston.	"
" 25	"	51722	Hugh Fraser & Son, Winchester.	3 "	30	Birks, Corner & Co. Montreal.	"
" 25	"	51723	A. Sweet & Co., Winchester..	3 "	30	Vendors ...	"
" 27	"	51724	S. Dignard, St. Patrick St., Ottawa.	3 "	30	Windsor Spice Mills.	Provost & Allard, Ottawa.
" 28	"	51725	S. G. Lindsay, Aylmer, P.Q.	3 "	15	White Swan Spices & Cereals Co., Ltd., Toronto.	Mfrs
" 28	"	51726	M. E. Cormier Aylmer, P.Q.	3 "	30	E.W. Gillett Co., Ltd., Toronto.	H. N. Bate & Sons, Ottawa.
" 28	"	51727	P. Daoust & Cie, Hull, P.Q.	3 "	30	The F. F. Dalley Co., Ltd., Hamilton.	Mfrs
" 28	"	51728	A. Labelle, Hull, P.Q.....	3 "	30	C. H. Cochrane & Co., Ottawa.	"
" 28	"	51729	E. McEwen, Hull, P.Q. ...	3 "	30	Litster Pure Food Co., Ltd., Toronto.	"

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BULLETIN No. 263—

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Mar. 10	Cream of Tartar.	45772	Newman Livingston, Napanee.	3 pkgs	30	E. W. Gillet Co., Toronto.	
" 10	"	45773	R. Elvins, Belleville	3 " ..	30	White Swan, Toronto.	
" 10	"	45774	H. E. Fairfield, Belleville....	3 " ..	30	J. M. Lowes Co., Toronto.	
Feb. 20	"	53062	W. J. Arniel, Kingston	3 " ..	30	N. C. Polson, Kingston.	
" 20	"	53063	W. J. Nesbit "	3 " ..	30	J. M. Lowes Co., Ltd., Toronto.	
" 20	"	53064	C. Saunders "	3 " ..	30	E. W. Gillett Co., Toronto.	
" 21	"	53065	D. B. Gage "	3 " ..	30	"	
" 21	"	53066	Geo. Gibson "	3 " ..	30	J. M. Lowes Co., Ltd., Toronto.	
" 24	"	53067	S. R. Artis, Belleville.....	3 " ..	45	E. W. Gillett Co., Toronto.	
" 25	"	53070	S. Sleeman, Port Hope.....	3 " ..	30	White Swan Co., Ltd., Toronto.	
DISTRICT OF TORONTO—							
Feb. 28	Cream of Tartar.	57021	J. J. Ilmurray, 234 Bolton Ave., Toronto.	3 pkgs	15		Dalton Bros., Toronto.
" 28	"	57022	John Kelday, 366 Ossington Ave., Toronto.	3 " ..	15		Todhunter, Mitchell & Co., Toronto.
Mar. 5	"	57023	J. A. Powell, 255 Danforth Ave., Toronto.	3 " ..	15		The Carter Drug Co., Toronto.
" 6	"	57024	J. & W. McFarren, 214 Queen St. east, Toronto.	3 " ..	30	E. W. Gillett Co., Ltd., Toronto.	
" 6	"	57025	F. Gench, 356 Queen St. east, Toronto.	3 " ..	15	Dalton Bros., Toronto.	
" 6	"	57026	A. Bell, 1906 Queen St. east, Toronto.	3 " ..	15	The J. M. Lowes Co., Ltd., Toronto.	
" 7	"	57027	Mrs. E. Shuttleworth, 1547 Dundas St. west, Toronto.	3 " ..	15		R. B. Hayhoe & Co., Toronto.
" 7	"	57028	J. H. Rountree, 1995 Dundas St. west, Toronto.	3 " ..	15	Pure Gold Mfg. Co., Ltd., Toronto.	
" 10	"	57029	E. Dawe, 339 Spadina Ave., Toronto.	3 " ..	15		R. B. Hayhoe & Co., Toronto.
" 10	"	57030	H. W. Scott, 266 Spadina Ave., Toronto.	3 " ..	15		The J. M. Lowes Co., Ltd., Toronto.

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BULLETIN No. 263—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1913.							
April 9	Cream of Tartar.	57121	J. H. Adams, 54 Peel St., Brantford.	3 pkgs	28	.....	Pure Gold Mfg. Co., Ltd., Toronto.
" 10	"	57122	Chas. McCausland, Paris...	3 "	30	.....	Geo. Foster & Son, Brantford
" 11	"	57123	Mrs. G. H. Archer, Lynden..	3 "	30	.....	Unknown.
" 14	"	57124	John Nott & Son, Dunnville..	3 "	30	.....	Gorman Eckert Co., Ltd., London, Ont.
" 14	"	57125	W. N. Moot & Son, Dunnville	3 "	30	.....	Balfour Smye & Co., Hamilton.
" 17	"	57126	John Muir, 29 Queen St. Niagara Falls, Ont.	3 "	30	Todhunter Mitchell & Co., Toronto.	.....
" 18	"	57127	W. L. Effrick, 173 Main St., Niagara Falls South.	3 "	30	McLaren's Ltd., Hamilton.	.....
" 18	"	57128	W. Carroll, 432 York St., Hamilton.	3 "	30	The F. F. Dalley Co., Ltd., Hamilton.	.....
" 18	"	57129	G. Hitzroth, 89 Napier St., Hamilton.	3 "	15	"	.....
" 19	"	57130	H. Spicer, 89 Augusta St., Hamilton.	3 "	15	.....	Unknown.

DISTRICT OF WINDSOR—

Mar.	3	Cream of Tartar.	47947	Bradley & Son, Chatham, Ont	3 pkgs	30	E. W. Gillet Co. Toronto.
"	3	"	47950	Alfred Deloge, Chatham, Ont.	3 "	30	Gorman Eckert Co., London, Ont.

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CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity CC. N. per 100 grams.	Bicarbonate of pot- ash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al ₂ O ₃).	Free Tartaric Acid.	

H. J. DAGER, ACTING INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Labelled 'Pure Gold' Cream of Tartar. Quality guaran- teed.	525	98.7	.....	.....	.....	.....	.....	.....	57121	Genuine B.P.
Labelled Gillet's ground Cream of Tartar guaranteed to be chemically pure.	520	98	.....	.....	.....	.....	.....	.....	57122	"
"Red Feather" qual- ity pure French Cream of Tartar.	495	93.1	Present.	.....	.....	.....	.....	.....	57123	Genuine Com.
Labelled "Forest City Mills" pure Cream of Tartar. Warranted strictly pure.	495	93.1	"	.....	.....	.....	.....	.....	57124	"
Labelled "Tartan Brand Cream of Tartar guaranteed absolutely pure.	495	93.1	"	.....	.....	.....	.....	.....	57125	"
Labelled Todhunter's pure select Cream of Tartar.	525	98.7	.....	.....	.....	.....	.....	.....	57126	Genuine B.P.
Labelled "McLaren's Invincible" ground Cream of Tartar.	495	93	Present.	.....	.....	.....	.....	.....	57127	Genuine Com.
Labelled "Alliance Brand purest qual- ity.	495	93.1	"	.....	.....	.....	.....	.....	57128	"
Labelled 2oz. full wgt. Dalley's pure Cream of Tartar.	500	94	"	.....	.....	.....	.....	.....	57129	"
Labelled "Young's improved" pure Cream of Tartar. Young, Windfield Ltd., Hamilton, Ont.	480	90.2	"	.....	.....	.....	.....	.....	57130	"

JNO. TALBOT, INSPECTOR.

Labelled Gillet's ground Cream of Tartar chemically pure.	520	93	.....	.....	.....	.....	.....	.....	47947	Genuine B.P.
Labelled Gorman's pure ground Cream of Tartar.	500	94	Present.	47950	Genuine Com.

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BULLETIN No. 263—

Date of Collection.	Nature of Sample	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1913.							
Mar.	3	Cream of Tartar.	47953 J. D. Stark, Chatham, Ont. . .	3 pkgs	30	E. W. Gillet Co.	Toronto.
"	4	"	47955 H. A. Andrew, Chatham, Ont. . .	3 "	30	Gorman Eckert Co., London.	
"	5	"	47970 Wm. Burnie, Windsor, Ont. . .	3 "	30	"	
"	5	"	47974 A. St. Denis, " Ont. . .	3 "	30	E. W. Gillet Co.	Toronto.
"	6	"	47979 Laing & Moore, Essex.	3 "	30	Gorman Eckert Co., London, Ont.	
"	6	"	47983 J. R. Miller, Essex.	3 "	30	"	
"	6	"	47986 A. H. Scarff, Essex.	3 "	30	E. W. Gillet Co.	Toronto.

DISTRICT OF MANITOBA—

Feb.	24	Cream of Tartar.	45819 Blue Ribbon Ltd., Winnipeg.	$\frac{3}{4}$ lb. . .	24	Vendors.	
"	24	"	45820 Campbell Bros. & Wilson, Winnipeg.	$\frac{3}{4}$ " . .	Nil.	"	
"	25	"	45821 The Dyson Co., Winnipeg . .	$\frac{3}{4}$ " . .	"	"	
"	25	"	45822 The White Star Mfg. Co., Winnipeg.	3 tins.	50	"	
"	26	"	45823 The Gold Standard Mfg. Co., Winnipeg.	3 " . .	Nil	"	
Mar.	4	"	45824 S. Elliott & Co., Main St. N., Winnipeg.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.	
"	4	"	45825 D. Campbell, Main St. N., Winnipeg.	3 " . .	30	Todhunter, Mitchell Co., Toronto.	
"	5	"	45826 J. Paterson, Main St. N., Winnipeg.	3 " . .	30	Campbell Bros. & Wilson, Winnipeg.	
"	11	"	45827 J. T. Acheson & Son, Morden.	3 " . .	75	E. W. Gillett Co., Toronto.	
"	13	"	45828 J. B. Coyle, Winnipeg.	3 " . .	30	"	

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BULLETIN No. 263—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
Mar.	4 Cream of Tartar.	49836	Star Grocery, Nelson, B.C.	3 pkgs	45	E.W. Gillett Co., Toronto.	
"	4 "	49839	Christie & Benson, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancouver, B.C.	
"	7 "	49845	Morrin, Thompson Co., Phoenix, B.C.	3 pkgs	45	E.W. Gillett Co., Toronto.	
"	13 "	49849	E. T. Rahl, Hosmer, B.C.	3 "	30	White Star Mfg. Co., Winnipeg.	
"	13 "	49856	M. Lund, Hosmer, B.C.	3 "	40	Blue Ribbon Ltd., Winnipeg.	
"	17 "	49858	A. Hobson, Revelstoke, B.C.	3 tins.	75	Kelly, Douglas & Co., Vancouver, B.C.	
"	17 "	49859	C. B. Hume & Co., Revelstoke, B.C.	3 "	45	Empress Mfg. Co., Vancouver, B.C.	
"	26 "	49891	W. R. Braden, Rossland, B.C.	3 "	75	Kelly, Douglas Co., Vancouver, B.C.	
"	26 "	49892	Agnew & Co., "	3 pkgs	45	E.W. Gillett Co., Toronto.	
"	26 "	49893	Hunter Bros., "	3 tins.	75	Empress Mfg. Co., Vancouver, B.C.	
DISTRICT OF VANCOUVER—							
Mar.	11 Cream of Tartar.	53456	Edgett & Co., Vancouver, B.C.	3 pkgs	30	Kelly, Douglas & Co., Vancouver, B.C.	
"	11 "	53457	Nat. Drug & Chem. Co., Vancouver, B.C.	3 "	30	Vendors.	
"	11 "	53458	Gruchy & Carlaw, Vancouver, B.C.	3 "	30	Pure Gold Mfg. Co., Toronto.	
DISTRICT OF VICTORIA—							
Mar.	14 Cream of Tartar.	53546	Acton Bros., 1317 Douglas Ave., Victoria, B.C.	1½ lb.	75	E.W. Gillett Co., Ltd., Toronto.	
"	18 "	53553	Copas & Young, 631 Fort St., Victoria, B.C.	1½ "	60	Pure Gold Mfg. Co., Ltd., Toronto.	
"	18 "	53555	James Adams, 1309 Gladstone Ave., Victoria, B.C.	¾ "	30	Wm. Braid & Co., Vancouver, B.C.	
"	19 "	53560	H. O. Kirkham, 741 Fort St., Victoria, B.C.	¾ "	30	Kelly, Douglas & Co., Ltd., Vancouver, B.C.	
"	19 "	53562	W. A. Jamieson Coffee Co., 75 Broughton St., Victoria, B.C.	¾ "	45	Thompson & Co., Montreal.	
"	19 "	53564	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	1½ "	30	"	

APPENDIX G.

BULLETIN No. 264—FERTILIZER, 1913.

OTTAWA, 21st October, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 431 samples of Fertilizers obtained by our inspectors during March and April of this year.

The analytical work upon these has been completed for some months past; and delay in presenting this Report is due to protracted correspondence with dealers and others, in an attempt to clear up difficulties of identification, arising mainly through carelessness on the part of dealers, but in some cases due to mistakes made by our own inspectors. I cannot say that all difficulties referred to have been satisfactorily solved, and from this fact arises some degree of uncertainty in pronouncing as to the results of analysis.

So far as information is available to me, the following synopsis represents these results:—

Samples meeting their guarantee.	358
“ nearly meeting their guarantee.	27
“ not registered, or not sufficiently identified.	25
“ showing deficiency.	21
Total.	431

When one considers the simplicity of our Fertilizers Act and the clearness with which its requirements are stated in the Act itself, together with the fact that it has now been three years in operation, it seems very strange that any difficulty should be found in carrying it quite definitely into effect. It may be well to state, in plain terms, the requirements of the Act and the conditions under which alone it can be made effective.

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The Act is primarily intended to protect the purchaser of fertilizers by assuring him of the actual values of what he buys.

With this object in view we endeavour, through our inspectors, to obtain samples of all brands of fertilizers found on Canadian markets. The sample is always taken by our inspector in the presence of the vendor, whose privilege it is to see that our inspector obtains a representative sample of the fertilizer in question. Our inspector is properly instructed in the matter; but he requires to have the vendor present; and the vendor is either the manufacturer, or is an agent of the manufacturer; and as such is interested in seeing that a truly representative sample is taken.

It must not be forgotten that the results of analysis apply not to the whole output of the manufacture, but to that portion of the goods which comes into possession of the Analyst. Yet, upon the result of analysis of this portion, must be based the action of the Department; and the importance of securing a truly representative sample is therefore evident.

It is the duty of the dealer to see that he offers only a properly registered and tagged (or otherwise labelled) fertilizer for sale.

It is his duty to see that the tag is legible, and that it belongs to the very package to which it is attached.

The registration number constitutes a legal identification of the brand; and the manufacturer is responsible, inasmuch as he must furnish an article having the guaranteed values registered at the Department in connection with the number on the tag.

Any question of properly applying tags, labels or registration numbers to particular packages, must be arranged between the dealer and the manufacturer.

Our inspector's duty is to see that the package or packages from which he takes his samples, are tagged or labelled, as required by law; or, if not tagged or labelled, to report the fact to the Department. In this case, the dealer is liable to a fine of Fifty Dollars. It is further the duty of our inspectors to secure a representative sample of the goods; to divide this into three portions; to seal each portion, and to leave one of the three portions with the dealer. If he so desires, the dealer may affix his own seal to one of the three portions, in addition to the inspector's seal. The other two portions are sent to these laboratories.

While the Department recognizes that fertilizer analyses are made primarily in the interest of the user of the fertilizer, it is not forgetful of the commercial importance attaching to the publication of our results, as affecting the manufacturer and the vendor.

Identification of the brand depends upon the vendor and the inspector; the former being responsible for the correctness of the information furnished to our inspector; the latter for accurate transmission of such information to the Department.

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The portion received at the laboratories is carefully sampled by an experienced man, and about eight ounces of the material bottled for the use of the analyst. When the whole series has been reported on, those samples which fail to meet guarantees are set apart.

They are transferred to new bottles (to prevent the possibility of recognition of the container) and marked with numbers, the key to which is in possession of the Chief Analyst only. They are then submitted to a second analysis, and it is only when the results of this check analysis corroborate the first results, that these are established as final.

No amount of care on the part of our officers will secure justice to a manufacturer, whose agent (the dealer) is careless. The manufacturer is required to tag or label every package of his goods.

These come into the possession of the dealer, who perhaps handles many other brands.

Tags are torn off, or labels are rendered illegible. The dealer is too often careless in re-tagging. We have many times found a sample of a complete fertilizer sold with a number which belonged to a slag, or *vice versa*, and again and again we find discrepancies between the claim corresponding to the number on the tag, and the actual results of analysis, so great as to make it certain that there is something wrong in identification of the brand. In strict law, we are justified in publishing the results in these cases, and in holding the dealer, as agent, entirely responsible for the failure of the sample, as sold by him, to meet the claim on the tag it bears.

Unfortunately, however, such action works injury to the manufacturer of the brand, who may be perfectly innocent; and involves the reputation of a manufacturer, who is in no way responsible for the particular brand in question.

I am convinced that dealers in fertilizers must be made to feel the responsibility they have both to the consumer and to the manufacturer whose goods they handle. This may be best done by strictly enforcing the penal clauses of the Act against them, in all cases in which it is clear that carelessness has caused them to blunder as above described.

Fifteen samples of this collection which were sold without any registration number, have been supplied with what are assumed to be the numbers belonging to them, as inferred from information given by vendors. In all of these cases the assumed registration numbers are placed in brackets to distinguish them from registration numbers furnished by our inspectors. In twelve of these cases, the results of analysis meet the terms of the assumed guarantee. In the remaining three cases, there is, of course, no basis on which to found any charge against the manufacturer. The identification of the brand is an assumption.

It is not fair to the manufacturer who had secured a registration number for his different brands, to assume the identity of an untagged fertilizer sample with any one of these; and this practice will be discontinued in future. The only just way of

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dealing with fertilizers offered for sale without tags, is to impose the maximum penalty fixed by Section 15 of the Act (Fifty Dollars) on the dealer.

I would respectfully advise publication of this report as Bulletin No. 264.

I have the honour to be, sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 264—

Date of Collection	Designation.	No. of Sample	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1913.								
Mar. 20	Potato and Vegetable Phosphate	46966	F. W. Dimock, Windsor, N.S.	3 lbs.	Nil.	Bowker Co., Boston, Mass.	Mfrs	
" 20	Stockbridge Special Complete Manure for Potatoes and Vegetables.	46967	"	3 "	"	"	"	
" 20	Bowker's Square Brand Bone and Potash.	46968	"	3 "	"	"	"	
" 20	Scottish Potato Manure.	46969	C. P. Blanchard, Truro, N.S.	3 "	"	A. Cross & Son, Glasgow, Scot		
" 20	'A' Quality Basic Slag.	46970	"	3 "	"	Cross Fert. Co., Sydney, N.S.	"	
" 20	Montreal Special Manure.	46971	H. H. McNutt, Truro, N.S.	3 "	"	Montreal Abattoirs Ltd.	"	
" 20	Gilt Edge Potato and Tobacco Manure.	46972	"	3 "	"	"	"	
" 20	Fine Bone	46973	"	3 "	"	"	"	No number on bag or tag.
April 15	Fertilizer.	46974	Halifax Seed Co., Halifax, N.S.	3 "	"	Lowell Fert. Co., Windsor, N.S.	Colonial Fert. Co., Windsor, N.S.	
" 15	Empress Brand	46975	"	3 "	"	"	"	
" 15	Cereal Brand...	46976	"	3 "	"	"	"	
" 15	Ground Bone...	46977	"	3 "	"	"	"	
" 23	1-8-5 Brand . . .	46978	Amherst Trading Co., Amherst, N.S.	3 "	"	Dom. Fert. St. Stephen, N.B.	Mfrs	
" 23	2-8-10 Brand...	46979	"	3 "	"	"	"	
" 23	Basic Slag	46980	"	3 "	"	Anglo Continental Guano Works, London, Eng.	"	
" 23	Potato Manure..	46981	R. A. Beckwith, Amherst, N.S.	3 "	"	A. Cross & Sons, Glasgow, Scot.	"	
" 25	Muriate of Potash.	46982	F. Wescott, Gasperany, N.S.	3 "	"	German Kali Works, New York	Unknown	

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FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
92	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	46966	Meets guarantee.
88	As found.....	1.90	5.80	2.53	1.30	9.63	8.33	2.14	.....	.....	46967	
	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	.....	.....	"
	As found....	3.5	3.45	2.25	1.48	7.18	5.70	9.50	.....	.....	.....
95	As guaranteed	1.65	2.0	4.0	2.0	1.0	7.0	6.0	2.0	.....	46968	"
	As found ..	2.22	3.70	2.68	1.67	8.06	6.38	2.04	.....	.....	.....
515	As guaranteed	2.47	3.0	7.0	1.0	1.9	9.0	8.0	3.5	.....	46969	Meets guarantee, essentially, the available phosphoric acid being up to claim.
	As found.....	3.05	2.52	6.97	2.01	11.50	9.49	3.63	.....	.....	.....
557	As guaranteed	.....	.....	.....	12.8	.....	.....	.....	.....	.....	46970	Meets guarantee.
	As found.....	.....	.....	.....	13.35	0.88	14.23	13.35	.....	90.9	.....	
556	As guaranteed	.....	1.0	.....	.....	.....	8.0	5.0	.....	.....	46971	"
	As found.....	.....	1.5	.....	10.24	1.96	12.20	10.24	4.56	.....	.....
555	As guaranteed	.....	3.0	.....	.....	.....	7.0	10.0	.....	.....	46972	*Very low in potash, deficiency 8.5 p.c.
	As found.....	.....	3.20	.....	11.23	2.10	13.33	11.23	1.54	.....	.....
	As found.....	.....	4.39	.....	16.31	8.77	25.08	16.31	.....	.....	46973	Not identified, and apparently not registered.
803	As guaranteed	1.64	2.0	4.0	4.0	1.0	9.0	8.0	3.0	.....	46974	
	As found.....	.....	2.10	5.03	3.41	0.94	9.38	8.44	2.94	.....	.....	Meets guarantee.
802	As guaranteed	1.24	1.5	3.0	4.0	1.0	8.0	7.0	2.0	.....	46975	"
	As found.....	.....	1.90	4.81	2.56	1.13	8.50	7.37	2.61	.....	.....
799	As guaranteed	0.82	1.0	4.0	3.0	1.0	8.0	7.0	1.0	.....	46976	"
	As found.....	.....	1.10	4.28	3.51	1.06	8.85	7.79	1.34	.....	.....
463	As guaranteed	2.46	3.0	.....	.....	.....	23.0	.....	.....	.....	46977	"
	As found.....	.....	3.64	.....	16.90	6.65	23.55	16.90	.....	.....	.....
492	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	46978	"
	As found.....	.....	1.10	3.55	4.17	0.88	8.60	7.72	5.74	.....	.....
489	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	46979	Low in potash.
	As found.....	.....	1.75	6.73	1.89	0.65	9.28	8.62	8.51	.....	.....
106	As guaranteed	.....	.....	.....	11.2	.....	14.0	.....	80.0	.....	46980	Meets guarantee.
	As found.....	.....	.....	.....	11.83	1.22	13.05	11.83	85.2	.....	.....
339	As guaranteed	1.65	2.0	.....	.....	.....	9.0	8.0	2.0	.....	46981	"
	As found.....	.....	2.43	.....	8.16	3.54	11.70	8.16	2.55	.....	.....
691	As guaranteed	.....	.....	.....	.....	.....	.....	48.0	.....	.....	46982	"
	As found.....	.....	.....	.....	.....	.....	.....	50.89	.....	.....	.....

* Manufacturers claims mistaken identification in the brand; should be 552 when the finding would be O.K.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA-SCOTIA—								
1913.								
April 25	Superphosphate with Potash.	46983	Burgess & Co., Wolfville, N.S.	3 lbs.	Nil.	Bowker Co., Boston, Mass.	Mfrs.	
" 25	6% Brand.	46984	" " " "	3 "	"	" " "	" " "	
" 28	Pidgeons' Ground Bone.	46985	Colonial Fert. Co., Windsor, N.S.	3 "	"	Vendors.		
" 28	Basic Slag.	46986	" " " "	3 "	"	Staachman Co., Germany.	Mfrs.	
" 28	Essex Potato Grower.	46987	" " " "	3 "	"	Vendors.		
" 28	Colonial Potato Grower.	46988	" " " "	3 "	"	" " "		
" 28	Colonial Acid Phosphate.	46989	" " " "	3 "	"	" " "		
" 28	Easex Complete Manure.	46990	" " " "	3 "	"	" " "		
" 28	Bone and Phosphate.	46991	F. H. Manning, Falmouth, N.S.	3 "	"	Montreal abattoirs, Montréal.	Mfrs.	No number on bag or tag.
" 29	Bone and Potash.	46992	A. L. Melvin & Co., Halifax, N.S.	3 "	"	Nova Scotia Fert. Co., Halifax, N.S.	" " "	
" 29	10% Potato Phosphate.	46993	" " " "	3 "	"	" " "	" " "	
" 29	Bone Meal.	46994	" " " "	3 "	"	" " "	" " "	
" 29	Potato Phosphate.	46995	" " " "	3 "	"	" " "	" " "	
" 29	Ceres Brand.	46996	" " " "	3 "	"	" " "	" " "	
" 29	Imperial Superphosphate.	46997	E. D. Smith, Dartmouth, N.S.	3 "	"	Prov. Chem. Co. St. John, N.B.		
" 29	Potato Phosphate.	46998	" " " "	3 "	"	" " "		
" 29	Potato Manure.	46999	" " " "	3 "	"	" " "		
May 6	4-8-4 Potato Fertilizer.	47000	United Fruit Co., Berwick, N.S.	3 "	"	A. Cross & Sons, Glasgow Scot.		
" 7	Slag.	54101	Nova Scotia Fert. Co., Halifax, N.S.	3 "	"	Staachman & Co., Germany.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Finesse.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
99	As guaranteed	.....	.....	6.0	4.0	1.0	11.0	10.0	2.0	.....	46983	Meets guarantee.
	As found.....	.....	.....	7.0	2.66	0.94	10.60	9.66	2.49	.....		
96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	46984	"
	As found.....	.....	0.90	5.19	1.86	0.50	7.55	7.05	7.40	.....		
786	As guaranteed	2.47	3.00	.....	.....	.....	20.00	.....	.....	.....	46985	"
	As found.....	.....	3.78	.....	13.86	8.72	22.58	13.86	.....	.....	
861	As guaranteed	.....	.....	.....	.....	.....	17.0	.....	.....	.....	46986	"
	As found.....	.....	.....	.....	14.78	3.05	17.83	14.78	.....	86.3		
790	As guaranteed	2.46	3.0	3.0	3.0	1.0	7.0	6.0	10.0	.....	46987	"
	As found.....	.....	2.90	4.55	1.35	0.65	6.55	5.90	10.66	.....		
765	As guaranteed	3.28	4.0	3.0	3.0	1.0	7.0	6.0	10.0	.....	46988	"
	As found.....	.....	4.00	4.80	2.09	0.94	7.83	6.89	9.19	.....		
859	As guaranteed	.....	.....	.....	.....	.....	15.0	14.0	.....	.....	46989	"
	As found.....	.....	.....	.....	15.42	1.38	16.80	15.42	.....	.....	
788	As guaranteed	3.23	4.0	3.0	3.0	1.0	7.0	6.0	10.0	.....	46990	† Not identified and apparently not registered.
	As found.....	.....	3.78	4.45	2.10	0.58	7.13	6.55	10.08	.....		
.....	As found.....	.....	.....	.....	6.95	3.78	10.73	6.95	26.20	.....	46991	
465	As guaranteed	.....	2.0	.....	6.0	2.0	8.0	6.0	2.0	.....	46992	Meets guarantee.
	As found.....	.....	2.80	.....	8.16	1.14	9.30	8.16	4.68	.....		
41	As guaranteed	.....	2.5	.....	.....	2.0	8.0	6.0	10.0	.....	46993	Deficient in phosphates, but excess of potash fully compensates in value.
	As found.....	.....	2.79	.....	4.05	0.61	4.66	4.05	14.62	.....		
44	As guaranteed	.....	3.00	.....	.....	.....	23.0	.....	.....	.....	46994	Low in total phosphoric acid.
	As found.....	.....	3.87	.....	12.88	8.15	21.03	12.88	.....	.....	
38	As guaranteed	.....	2.0	.....	.....	2.0	9.0	7.0	4.0	.....	46995	Meets guarantee.
	As found.....	.....	2.72	.....	7.20	1.35	8.55	7.20	5.29	.....		
37	As guaranteed	.....	2.0	.....	.....	2.0	9.0	7.0	2.0	.....	46996	"
	As found.....	.....	2.96	.....	7.70	1.30	9.00	7.70	4.74	.....		
69	As guaranteed	.....	3.0	.....	.....	.....	10.0	.....	1.5	.....	46997	"
	As found.....	.....	3.00	.....	.....	.....	11.68	.....	1.89	.....		
63	As guaranteed	.....	2.5	.....	.....	.....	8.0	.....	6.0	.....	46998	"
	As found.....	.....	2.70	.....	.....	.....	9.03	.....	5.97	.....		
70	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	4.0	.....	46999	"
	As found.....	.....	2.00	.....	.....	.....	8.85	.....	3.92	.....		
689	As guaranteed	3.29	4.0	7.0	1.0	1.0	9.0	8.0	4.0	.....	47000	"
	As found.....	.....	4.10	5.58	4.00	1.77	11.35	9.58	5.24	.....		
47	As guaranteed	.....	.....	.....	.....	.....	14.0	12.0	.....	.....	54101	
	As found.....	.....	.....	.....	13.76	0.69	14.45	13.76	.....	84.9		

* Samples, assumed to be duplicates, give respectively 9.81 and 8.57 potash, mean value, 9.19

† Vendor claims was not for sale but for own use.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF PRINCE EDWARD ISLAND—								
1913.								
April 16	Superphosphate	46424	Auld Bros., Charlottetown, P.E.I.	3 lbs	Nil.	Thos. Vickers & Son, Manchester, Eng.		
" 16	Nitrate of Soda	46425 *	" "	3 "	"	The Am. Agr. Chem. Co., Weymouth, Mass.		
" 16	Sulphate of Potash.	46426	" "	3 "	"	German Kali Works, Leopoldshall, Strassfurt.		
" 16	Muriate of Potash.	46427	" "	3 "	"	"		
" 16	Swans Thomas Phosphate.	46428	" "	3 "	"	Swan Bros. Wks., Wigan, Eng.		
" 16	Sure Growth....	46429	" "	3 "	"	Montreal Abattoirs Ltd., Montreal.		
" 16	Montreal Special Potato Manure.	46430	" "	3 "	"	"		
" 17	Corn and Cereal Special.	46431	" "	3 "	"	"		
" 19	Early Fruit and Vegetable Grower.	46432	" "	3 "	"	"		
" 19	Gilt Edge Potato and Tobacco Manure.	46433	Auld Bros., Charlottetown, P.E.I.	3 "	"	Montreal Abattoirs Ltd., Montreal.		
May 7	Nitrate of Soda.	46434	J. H. Gill, Charlottetown, P.E.I.	3 "	"	Alex. Cross & Sons, Ltd., Glasgow.		
" 7	Superphosphate.	46435	" " "	3 "	"	" "		
" 10	Muriate of Potash.	46436	" " "	3 "	"	German Kali Works, Leopoldshall, Strassfurt, Germany.		

DISTRICT OF NEW BRUNSWICK—

Mar. 17	Bowker's 6 %...	50301	D. J. Seely & Son, 3 jars. St. John, N.B.	10	Bowker Fert. Co., Boston, Mass.		
" 17	Stockbridge complete Manure for Potatoes and Vegetables.	50302	" " 3 "	10	"		

* Warehouse men only.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
324	As guaranteed	...	...	...	...	...	...	16.0	...	...	46424	Meets guarantee.
	As found.	...	...	17.50	0.45	0.53	18.50	17.97	...	...	...
179	As guaranteed	15.0	18.23	...	...	...	...	...	...	...	46425	"
	As found.	...	18.20	...	...	...	...	...	...	...	...
306	As guaranteed	...	...	...	...	...	...	...	48.0	...	46426	"
	As found.	...	...	...	...	...	...	...	47.80	...	...
305	As guaranteed	...	...	...	...	...	...	...	50.0	...	46427	"
	As found.	...	...	...	...	...	...	...	48.96	...	...
323	As guaranteed	...	...	...	11.20	2.80	14.0	11.20	...	...	46428	"
	As found.	...	...	...	11.53	3.25	14.78	11.53	...	86.0	...	
551	As guaranteed	...	1.0	...	...	...	...	8.0	1.0	...	46429	"
	As found.	...	2.20	...	8.31	1.49	9.80	8.31	2.12	...	...
556	As guaranteed	...	1.0	...	...	...	...	8.0	1.0	...	46430	Much above guarantee in potash.
	As found.	...	1.20	...	8.65	1.70	10.35	8.65	5.87	...	...
552	As guaranteed	...	2.0	...	...	...	...	8.0	2.0	...	46431	Meets guarantee.
	As found.	...	2.00	...	8.81	3.34	12.15	8.81	2.59	...	...
553	As guaranteed	...	4.0	...	...	...	...	6.0	4.0	...	46432	"
	As found.	...	4.30	...	8.14	3.16	11.30	8.14	5.57	...	...
555	As guaranteed	...	3.0	...	...	...	...	7.0	10.0	...	46433	* Low in potash.
	As found.	...	3.10	...	9.53	3.57	13.10	9.53	6.32	...	...
174	As guaranteed	15.5	18.8	...	...	...	...	...	...	...	46434	Meets guarantee.
	As found.	...	18.30	...	...	...	...	...	...	...	...
327	As guaranteed	...	...	16.0	...	...	...	...	...	...	46435	"
	As found.	...	...	16.86	...	1.24	18.10	16.86	...	...	...
691	As guaranteed	...	...	...	...	...	...	...	48.0	...	46436	"
	As found.	...	...	...	...	...	...	...	48.38	...	...

J. C. FERGUSON, INSPECTOR.

96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	...	50301	Meets guarantee.
	As found.	...	1.10	4.00	3.48	1.02	8.50	7.48	5.22	...	...
	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	...	50302	Nearly meets guarantee.
88	As found.	...	3.20	4.50	2.54	1.71	8.75	7.04	8.92	...	...

* Manufacturers claim as accidental.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1913.								
Mar. 17	Sure Crop	50303	D. J. Seely & Son, St. John, N.B.	3 jars.	10	Bowker Fert Co., Boston, Mass.		
" 17	Farm and Gar- den.	50304	" " "	3 "	10	" "		
" 17	Square Brand...	50305	" " "	3 "	10	" "		
" 17	Bowker's Potato and Vegetable Phosphate.	50306	" " "	3 "	10	" "		
" 22	10% Complete Aroostook.	50307	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors.....		
" 22	Complete Potato Grower.	50308	" " "	3 "	10	" "		
" 22	Special Potato Phosphate.	50309	" " "	3 "	10	" "		
" 22	Potato Manure.	50310	" " "	3 "	10	" "		
" 22	Imperial Super- phosphate.	50311	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors....		
" 22	Blood Bone and Potash.	50312	" " "	3 "	10	" "		
" 22	Victor Guano...	50313	" " "	3 "	10	" "		
Apr. 10	4-6-10.....	50314	Dom. Fert. Co., Ltd., St. Stephen, N.B.	3 "	10	" "		
" 10	3-6-10.....	50315	" " "	3 "	10	" "		
" 10	2-8-10	50316	" " "	3 "	10	" "		
" 10	2-9-5.....	50317	" " "	3 "	10	" "		
" 10	Bradley's X.L. .	50318	Hill Bros., St. Stephen, N.B.	3 "	10	A. m. Agr. Chem. Co., Boston, Mass.		
" 10	Bradley's Potato Manure.	50319	" " "	3 "	10	" "		
" 15	10 p.c. Potato Phosphate.	50320	Byron Brewer, Fredericton, N.B.	3 "	10	Nova Scotia Fert. Co., Halifax, N.S.		
" 15	Potato Phos- phate.	50321	" " "	3 "	10	" "		
" 15	Special Potato Phosphate.	50322	" " "	3 "	10	" "		
" 15	High Grade Po- tato Phosphate	50323	" " "	3 "	10	" "		
" 16	Harab.....	50324	Benn & Turney, Woodstock, N.B.	3 "	Nil.	The Harris Abattir Co., Ltd., Toronto		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
Continued.												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
773	As guaranteed.	0.82	1.0	7.0	2.0	1.0	10.0	9.0	2.0		50303	Meets guarantee.
	As found.		1.10	6.65	2.57	1.16	10.38	9.22	2.69			
94	As guaranteed.	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0		50304	"
	As found.		2.80	5.75	3.24	1.24	10.23	8.99	2.42			
95	As guaranteed.	1.65	2.0	4.0	2.0	1.0	7.0	6.0	2.0		50305	"
	As found.		2.27	4.51	2.96	0.98	8.45	7.47	2.49			
92	As guaranteed.	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0		50306	"
	As found.		1.97	5.53	2.46	1.64	9.63	7.99	2.21			
65	As guaranteed.		4.0				8.0		10.0		50307	"
	As found.		3.75				7.55		11.00			
64	As guaranteed.		3.0				6.0		10.0		50308	"
	As found.		3.20				5.60		10.72			
63	As guaranteed.		2.5				8.0		6.0		50309	"
	As found.		2.50				7.50		6.23			
70	As guaranteed.		2.0				7.0		4.0		50310	"
	As found.		2.00				7.25		3.88			
69	As guaranteed.		3.0				10.0		1.5		50311	"
	As found.		3.00				9.88		2.12			
71	As guaranteed.		2.0				7.0		4.0		50312	"
	As found.		2.10				7.10		4.34			
68	As guaranteed.		2.0				7.0		2.5		50313	"
	As found.		2.20				6.90		2.12			
487	As guaranteed.	3.3	4.0	4.0	2.0	1.0	7.0	6.0	10.0		50314	"
	As found.		3.90	2.30	4.31	1.02	7.63	6.61	10.62			
488	As guaranteed.	2.4	3.0	4.0	2.0	1.0	7.0	6.0	10.0		50315	"
	As found.		2.90	1.70	4.08	0.95	6.73	5.78	14.06			
489	As guaranteed.	1.6	2.0	6.0	2.0	1.0	9.0	8.0	10.0		50316	"
	As found.		2.00	7.13	1.29	0.91	9.33	8.42	10.16			
490	As guaranteed.	1.6	2.0	7.0	2.0	1.0	10.0	9.0	5.0		50317	"
	As found.		2.25	3.43	5.45	1.32	10.20	8.88	4.96			
2	As guaranteed.	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5		50318	"
	As found.		2.35	4.68	3.60	0.90	9.18	8.28	1.56			
190	As guaranteed.	2.47	3.0	4.0	2.0	1.0	7.0	6.0	5.0		50319	"
	As found.		2.80	3.50	2.71	0.99	7.20	6.21	5.13			
41	As guaranteed.		2.5			2.0	8.0	6.0	10.0		50320	Meets guarantee value. Compensated.
	As found.		2.50		4.85	0.79	5.64	4.85	11.72			
38	As guaranteed.		2.0			2.0	9.0	7.0	4.0		50321	Meets guarantee. Low in phosphoric acid. Meets guarantee in value. Compensated.
	As found.		2.80		6.55	1.09	7.67	6.58	4.54			
40	As guaranteed.		2.5			2.0	8.0	6.0	7.0		50322	"
	As found.		2.50		5.40	0.75	6.15	5.40	7.65			
36	As guaranteed.		4.0			2.0	8.0	6.0	10.0		50323	Meets guarantee.
	As found.		3.90		5.93	1.17	7.10	5.93	11.74			
695	As guaranteed.		4.0				7.0	6.0	10.0		50324	"
	As found.		3.80		7.56	1.04	8.60	7.56	11.12			

Continued.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW

1913.								
April 18	3-6-10.....	50325	Porter Manzer Co., Woodstock, N.B.	3 jars.	Nil.	Int. Agr. Corporation, Buffalo Fert. Wks		
" 18	Thomas Phosphate Powder.	50326	J. Warren Jamer, Andover, N.B.	3 "	10	H & E. Albert, London, Eng.		
" 23	Bone Meal.....	50327	Mills Eveleigh Co., Ltd., Sussex, N.B.	3 jars.	10	Dom. Fert. Co., St. Stephen, N.B.		
" 23	Basic Slag, "A" Quality.	50328	"	3 "	10	The Cross Fert. Co., Ltd., Sydney, N.S.		
" 23	2-8-2.....	50329	"	3 "	10	Dom. Fert. Co., St. Stephen, N.B.		
" 23	Ground Bone...	50330	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	10	New England Fert. Co., Windsor, N.S.		
" 23	Potato Fertilizer	50331	"	3 "	10	"		
" 23	Corn and Grass..	50332	"	3 "	10	"		
June 4	Basic Slag.....	50333	Walter K. Reade, Melrose, N.B.	3 "	Nil.	Glengarnock Phosphate Wks, Glengarnock.	Woodford Allen, Upper Cape, N.B.	Stenciled on bag 24% Sol. Phosphates.
" 4	Basic Slag.....	50334	"	3 "	"	"	Rich. Joyce, Melrose, N.B.	
" 4	Basic Slag.....	50335	Job Fillmore, Port Elgin, N.B.	3 "	"	"	Colonial Fertilizer Co., Windsor, N.S.	
" 5	Basic Slag.....	50336	Isaac Winslow Kaye, Little She-mogue, N.B.	3 "	"	The Cross Fert. Co., Ltd., Sydney, N.S.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
753	As guaranteed As found.	2.46 2.60	3.0 1.35	4.0 4.76	2.0 0.97	1.0 7.08	7.0 6.11	6.0 10.03	10.0 .....	.....	50325	Meets guarantee.
1	As guaranteed As found..... 14.88	12.0 1.02	15.0 15.90 14.88 86.6	50326	
572	As guaranteed As found.....	2.46 3.37	3.0 .....	..... 16.33	..... 7.20	..... 23.53	22.0 16.33	..... .....	..... .....	.....	50327	"
557	As guaranteed As found.....	..... .....	..... .....	..... 13.08	12.80 0.72	..... 13.80	..... 13.08	..... 81.0	..... .....	.....	50328	Meets guarantee.
491	As guaranteed As found.....	1.6 1.92	2.0 3.45	6.0 4.85	2.0 1.10	1.0 9.40	8.0 8.30	2.0 2.28	..... .....	.....	50329	Meets guarantee.
93	As guaranteed As found.....	1.65 4.07	2.00	6.00 13.85	2.00 5.55	1.00 19.40	9.00 13.85	8.00	2.00 .....	.....	50330	Apparently some mistake in identification or description. Is of full guaranteed value.
814	As guaranteed As found.....	1.64 2.05	2.0 5.00	4.0 1.86	3.0 1.02	1.0 7.88	8.0 6.86	7.0 3.94	4.0 .....	.....	50331	Meets guarantee.
815	As guaranteed As found.....	0.82 1.50	1.0 5.75	4.0 2.29	3.0 1.31	1.0 9.35	8.0 8.04	7.0 2.52	1.0 .....	.....	50332	Meets guarantee.
*254	As guaranteed As found.....	..... .....	..... .....	..... 14.58	..... 0.27	..... 14.85	..... 14.58	..... .....	85.0 85.2	.....	50333	Meets guarantee.
	As found.. ....	.....	.....	.....	14.28	1.97	16.25	14.28	.....	79.3	50334	Not identified, and apparently not registered. Said to be purchased as samples only by Mr. Reade and not for sale.
862	As guaranteed As found.. ....	..... .....	..... .....	..... 14.45	..... 1.43	16.0 15.88	..... 14.45	..... .....	80.0 81.4	.....	50335	Meets guarantee.
557	As guaranteed As found.....	..... .....	..... .....	..... 12.13	12.8 0.43	..... 12.56	..... 12.13	..... .....	..... 94.8	.....	50336	Meets guarantee.

* (24 per cent Soluble phosphates) = 15 p.c. P_2O_5 .

5 GEORGE V., A. 1915

BULLETIN No. 264-

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1913.								
Mar. 26	Capital.....	37023	George Tanguay, 3 Lbs. Québec.	Nil.		Vendor..		
" 26	Jupiter	37024	" " " "	3	"	"		
" 26	Phoenix	37025	" " " "	3	"	"		
" 26	Monarch	37026	" " " "	3	"	"		
" 26	Union	37027	" " " "	3	"	"		
" 26	Nestor.....	37028	George Tanguay, 3 Québec.	"	"	Vendor		
" 26	Celtic	37029	" " " "	3	"	"		
" 27	Muriate of Potash.	37030	J. B. Reneaud et Cie, Québec.	3	"	British Oil and Cake Mills, Liverpool.		
" 26	Globe	37031	George Tanguay, 3 Québec.	"	"	Vendor.....		
" 27	Nitrate of Soda.	37032	J. B. Reneaud et Cie, Québec.	3	"	British Oil and Cake Mills, Liverpool.		
" 27	Sulphate of Potash.	37033	" " " "	3	"	"		
" 27	Basic Slag.....	37034	" " " "	3	"	"		
April 18	Defiance..	37036	P. T. Légaré, Ltd., Québec.	3	"	Mich. Carbon Wks Detroit	Mfrs.....	
" 18	Thomas Phosphate Basic Slag.	37037	" " " "	3	"	Cross Fert. Co., Ltd., Sydney, N.S.	"	
" 18	Fruit and Vine..	37038	" " " "	3	"	Mich. Carbon Wks Detroit	"	
" 18	Virginia Tobacco	37039	" " " "	3	"	"	"	
" 18	High Grade Garden and Vegetable.	37040	" " " "	3	"	"	"	
" 18	Royal Canadian.	37041	" " " "	3	"	Cap. Chem. and Fert. Co., Buckingham.	"	
" 18	Victor.....	37042	" " " "	3	"	"	"	
" 23	North Western Canadian Potash Fertilizer.	37043	Eug. Julien et Cie, Ltd., Québec.	3	"	The Am. Agr. Chem. Co., Buffalo, N. Y.	"	

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

F. X. W. E. BELAND, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
511	As guaranteed	4.0	5.0	.....	.....	.....	.....	8.0	6.0	.....	37023	Low in phosphoric acid, but meets guarantee in value. Compensated.
	As found.....	.....	5.70	.....	6.17	0.66	6.83	6.17	9.03	.....	.....
510	As guaranteed	2.06	2.5	.....	.....	.....	.....	8.0	5.0	.....	37024	Meets guarantee.
	As found.....	.....	4.30	.....	8.35	1.23	9.58	8.35	7.58	.....	.....
548	As guaranteed	2.47	3.0	.....	.....	.....	.....	6.0	7.0	.....	37025	Meets guarantee.
	As found.....	.....	3.00	.....	9.40	1.08	10.48	9.40	7.60	.....	.....
682	As guaranteed	1.67	2.0	.....	.....	.....	.....	9.0	8.0	.....	37026	Low in potash, but meets guarantee in value. Compensated.
	As found.....	.....	1.50	.....	11.13	1.43	12.53	11.13	6.70	.....	.....
507	As guaranteed	2.47	3.0	.....	.....	.....	.....	8.0	3.5	.....	37027	Meets guarantee.
	As found.....	.....	2.15	.....	9.13	1.32	10.45	9.13	5.20	.....	.....
683	As guaranteed	1.65	2.0	.....	.....	.....	.....	8.0	3.0	.....	37028	Meets guarantee.
	As found.....	.....	1.50	.....	7.98	1.25	9.23	7.98	4.69	.....	.....
512	As guaranteed	.....	.....	.....	.....	.....	.....	10.0	5.0	.....	37029	Evidently mistake in identification.
	As found.....	.....	.....	.....	14.64	3.61	18.25	14.64	82.5	.....	.....
443	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	37030	Meets guarantee.
	As found.....	.....	.....	.....	.....	.....	.....	.....	49.24	.....	.....
547	As guaranteed	.....	.....	.....	.....	.....	.....	18.0	.....	.....	37031	Evidently mistake in identification.
	As found.....	.....	.....	.....	10.66	1.14	11.80	10.66	6.73	.....	.....
273	As guaranteed	15.0	18.5	.....	.....	.....	.....	.....	.....	.....	37032	Meets guarantee.
	As found.....	.....	18.00	.....	.....	.....	.....	.....	.....	.....	.....
299	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	37033	"
	As found.....	.....	.....	.....	.....	.....	.....	.....	48.18	.....	.....
302	As guaranteed	.....	.....	.....	15.4	3.85	19.25	.....	.....	.....	37034	"
	As found.....	.....	.....	.....	15.80	5.08	20.88	15.80	86.3	.....	.....
203	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	37036	"
	As found.....	.....	2.18	4.50	4.09	1.74	10.33	8.59	2.52	.....	.....
591	As guaranteed	.....	.....	.....	13.6	.....	.....	.....	.....	.....	37037	"
	As found.....	.....	.....	.....	15.18	1.30	16.48	15.18	85.5	.....	.....
212	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	37038	"
	As found.....	.....	2.25	6.58	1.91	1.24	9.73	8.49	10.79	.....	.....
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	37039	"
	As found.....	.....	2.0	5.00	3.23	1.37	9.60	8.23	3.77	.....	.....
210	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	6.0	.....	37040	"
	As found.....	.....	2.16	7.05	1.49	1.31	9.85	8.54	6.41	.....	.....
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	37041	"
	As found.....	.....	4.31	.....	.....	.....	9.43	.....	6.37	.....	.....
85	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	3.0	.....	37042	"
	As found.....	.....	1.72	.....	.....	.....	9.65	.....	3.36	.....	.....
335	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	37043	"
	As found.....	.....	1.00	2.12	4.01	1.02	7.15	6.13	7.06	.....	.....

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.								
April 23	Thomas's Phosphate Flour.	37044	Eng. Julien & Cie., Ltd., Quebec.	3 lbs.	Nil.	The Leeds Phosphate Wks, Leeds, Eng.	Mfrs. ....	.....
" 23	North Western Complete Manure.	37045	" "	3 "	" "	The Am. Agr. Chem. Co., Buffalo, N. Y.	" ....	.....
" 18	North Western Havana Tobacco Grower.	37046	" "	3 "	" "	"	" ....	.....
" 18	Juliens Special Canadian Fertilizer.	37047	" "	3 "	" "	"	" ..	.....
" 18	North Western High grade Potash Fertilizer.	37048	" "	3 "	" "	"	"	.....
" 18	Thomas Phosphate Meal.	37049	" "	3 "	" "	Glengarnock Phosphate Wks, Leeds, Eng.	"	.....

DISTRICT OF THREE RIVERS—

April 7	Fertilizer.	57251	I. A. Coutu, St. Felix de Valois.	4 lbs.	20	.....	.....	.....
" 7	Bowkers Super-phosphate with Potash.	57252	" "	4 "	30	.....	.....	.....
" 7	Thomas Phosphate.	57253	" "	4 "	40	.....	.....	.....
" 14	Victor.	57254	Frs. Rivest, Joliette.	4 "	10	Cap. Chem. & Fert. Co., Buckingham	.....	.....
" 14	Guano.	57255	Chevalier et Fils, Joliette.	4 "	20	.....	.....	.....
" 14	Grain Fertilizer.	57256	" "	4 "	10	.....	.....	.....
" 14	Victor.	57257	E. Goulet et Fils, St. Jacques.	3 "	6	Cap. Chem. & Fert. Co., Buckingham	.....	.....
" 14	Fertilizer.	57258	A. M. Melancon, St. Jacques.	4 "	10	.....	.....	.....

SESSIONAL PAPER No. 14
 FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
QUEBEC—Concluded.													
253	As guaranteed	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			Meets guarantee
	As found				13.5	18.0	13.25	4.20	17.45	80.0	37044		
226	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0		37045		"
	As found	2.38	5.70	2.20	1.68	9.58	7.90	2.81					
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0		37046		"
	As found	2.13	6.60	1.49	1.29	9.38	8.09	3.90					
685	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	3.0		37047		"
	As found	2.11	3.83	5.29	1.53	10.65	9.12	3.30					
687	As guaranteed	0.82	1.0	4.0	1.0	1.0	6.0	5.0	10.0		37048		"
	As found	1.7	1.98	4.35	0.87	7.20	6.33	10.19					
254	As guaranteed				13.5	18.0				85.0	37049		Meets guarantee very nearly.
	As found				13.98	2.86	16.84	13.98		90.4			

DR. V. P. LAVALLEE, INSPECTOR.

449	As guaranteed	2.47	3.0		5.0	1.0	6.0	5.0	10.0		57251	Evidently mistaken identification.
	As found				9.05	4.50	13.55	9.05		82.6		
(402)	As guaranteed			6.0	4.0	1.0	11.0	10.0	2.0		57252	Probably mistaken identification.
	As found			10.35	2.83	2.87	16.05	13.18	0.70			
338	As guaranteed				12.0	2.0	14.0				57253	Mistaken identification. Reg. 338 is a basic slag.
	As found				5.86	2.14	8.00	5.86	8.69			
(83)	As guaranteed		2.0				7.0		3.0		57254	Meets guarantee.
	As found		2.40				10.48		3.38			
65	As guaranteed		4.0				8.0		10.0		57255	Not properly identified. Inspectors mistake
	As found		1.91		7.46	1.09	8.55	7.46	10.68			
65	As guaranteed		4.0				8.0		10.0		57256	Not identified. Inspector's mistake.
	As found		0.60		11.88	1.42	13.30	11.88	10.22			
(83)	As guaranteed		2.0				7.0		3.0		57257	Meets guarantee.
	As found		2.1				11.0		3.59			
65	As guaranteed		4.0				8.0		10.0		57258	Not identified. Inspector's mistake.
	As found		1.80		6.85	0.83	7.68	6.85	10.54			

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.								
April 14	Victor.	57259	Laurion, L'Epi- phanie.	3 lbs.	10	Cap. Chem. & Fert. Co., Buckingham.		
" 18	Fertilizer. ..	57260	L. Provost, L'Epi- phanie.	3 "	10	Lesage Pack- ing & Fert. Co., Montréal		
" 18	Mich. Carbon Wks. Complete Fertil.	57261	Simon Forest, L'E- piphanie.	3 "	20	The Am. Agr. Chem. Co., Buffalo, N. Y.		
" 18	Mich. Carbon Wks. Virginia Tobacco.	57262	"	3 "	20	"		
" 18	Thomas Phosph- ate.	57263	I. A. Marion, St- Jacques.	3 "	20			
" 18	Fertilizer.	57264	"	3 "	20	The Am. Agr. Chem. Co., New York.		
" 18	N. W. Havana Tobacco Grower	57265	"	3 "	15	The Am. Agr. Chem. Co., Buffalo, N. Y.		
" 18	Fertilizer.	57266	I. P. Charlebois, L'Assomption.	4 "	10	Lesage Pack- ing Fert. Co., Montreal.		
" 18	"	57267	"	4 "	10	"		
" 18	N. Western Com- plete Havana Grower.	57268	Louis Pauzé, L'As- somption.	4 "	25	Am. Agr. Chem. Co., Buffalo, N. Y.	Eugène Ju- lien, Que- bec.	
" 18	N. Western Com- plete Havana.	57269	"	4 "	15	"	"	
" 18	Fertilizer.	57270	"	4 "	15	"	"	
" 18	"	57271	T. Brazeau, L'As- somption.	4 "	20	"	Dupuy & Ferguson, Montreal.	
" 18	"	57272	"	4 "	20	Lesage Pack- ing Fert. Co., Montreal.		
" 18	Eng. Virginia Complete Fert.	57273	Bédard et Cie, L'Assomption.	3 "	25	"	P. T. Légaré, Québec.	
" 18	"	57274	"	3 "	25	"	"	
" 28	Crockers High- Grade Special Fertilizer.	57275	Ls. Alexis Piette, Berthier.	4 "	20	Am. Agr. Chem. Co., New York.		
" 28	Mich. Carbon Wks. Complete Fertilizer.	57276	Pierre Beaudoin, Berthier.	4 "	20	Mich. Carbon Wks. Buffalo N. Y.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

THREE RIVERS—Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
(83)	As guaranteed	.....	2.0	...	...	...	7.0	...	3.0	.....	57259	Meets guarantee.
	As found.	.....	2.00	.....	...	...	9.30	.....	3.24	.....	
449	As guaranteed	2.47	3.0	.....	5.0	1.0	6.0	5.0	10.0	.....	57260	Meets guarantee.
	As found.	.....	2.00	.....	5.59	2.11	7.70	5.59	10.22	.....	
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57261	Meets guarantee.
	As found.	.....	2.35	5.23	2.78	1.52	9.53	8.01	4.23	.....	
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57262	Meets guarantee.
	As found.	.....	2.10	3.25	5.36	1.19	9.80	8.61	4.36	.....	
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	80.0	.....	57263	Meets guarantee.
	As found.	.....	.....	.....	14.93	5.70	20.63	14.93	86.3	.....	
687	As guaranteed	0.82	1.0	4.0	1.0	1.0	6.0	5.0	10.0	.....	57264	Meets guarantee.
	As found.	.....	1.10	3.65	2.09	0.96	6.70	5.74	10.40	.....	
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57265	Meets guarantee.
	As found.	.....	2.30	6.90	1.53	1.20	9.63	8.43	4.17	.....	
448	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	7.0	.....	57266	Meets guarantee.
	As found.	.....	1.75	.....	6.94	1.34	8.28	6.94	7.20	.....	
331	As guaranteed	1.0	1.25	.....	5.0	1.0	6.0	.....	3.0	.....	57267	Meets guarantee.
	As found.	.....	1.10	.....	5.55	1.23	6.78	5.55	3.96	.....	
226	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0	.....	57268	Meets guarantee.
	As found.	.....	2.50	4.70	4.55	2.30	11.55	9.25	3.13	.....	
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57269	Evident mistake
	As found.	.....	.....	.....	12.45	5.40	17.85	12.45	88.4	.....		in identification
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57270	Meets guarantee.
	As found.	.....	2.10	6.58	1.62	1.48	9.68	8.20	4.48	.....	
259	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57271	Much below guarantee
	As found.	.....	1.20	9.21	4.22	0.72	5.15	4.43	0.30	.....		in phosphoric acid and potash but not certainly identified.
446	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	2.0	.....	57272	Meets guarantee.
	As found.	.....	2.00	.....	4.78	1.22	6.00	4.78	2.09	.....	
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57273	Meets guarantee.
	As found.	.....	2.25	3.63	5.05	1.35	10.03	8.68	4.11	.....	
209	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	57274	Meets guarantee.
	As found.	.....	2.50	5.23	3.67	1.65	10.55	8.90	4.22	.....	
261	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57275	Meets guarantee.
	As found.	.....	2.10	6.95	2.39	1.24	10.58	9.34	3.94	.....	
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57276	" "
	As found.	.....	2.10	4.83	3.41	2.34	10.58	8.25	3.91	.....	

5 GEORGE V., A. 1915

BULLE IN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.								
April 28	Thomas Phosphate.	57277	L. N. Tourdain, Trois-Rivières.	3 lbs.	25	The Cross, Port. Co. Sydney, N.S.	P.T. Légaré, Quebec.	
May 5	Thomas Phosphate.	57278	S. G. Laviolette, St. Jérôme.	3 "	Nil.	Thos. Phosphate, Leeds, Eng.	E. Julien...	
" 5	Fertilizer.	57279	" "	3 "	"	Leeds Phosphate Wks., Leeds, Eng.	"	
" 5	Mich. Carbon Works High Grade Garden and Vegetable Fertilizer.	57280	Moïse Dubois, Ste. Thérèse.	3 "	15	Am. Agr. Chem. Co., Buffalo, N.Y.		
" 5	Mich. Carbon Wks. Complete Fertilizer.	57281	" "	3 "	15	" "		
" 5	Bowkers Potato & Veg. Phosphate.	57282	Alex. MacMillan, Ste. Thérèse.	3 "	15	Bowker Fert. Co., Bayway, N.J.		
" 5	Bowkers Canadian Tobacco Special.	57283	Alex. McCubbin.	3 "	15	" "		
" 5	Bowkers Potato & Veg. Fertil.	57284	" "	3 "	15	" "		
" 5	Bowkers 6 p.c. Potato Fertilizer.	57285	" "	3 "	15	" "		
" 21	Thomas Phosphate.	57286	Edouard Valin, St. Augustin, Port-neuf.	3 "	Nil.	Anglo-Canadian Chem. Co.		
" 21	Fertilizer.	57287	" "	3 "	"	German Kali Wks., New York.		
" 22	"	57288	I. B. Ferland, Sorel.	3 "	"	Lesage Packing & Fert. Co., Montreal.		
" 22	"	57289	" "	3 "	"	" "		

SESSIONAL PAPER No. 14

A FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

THREE RIVERS—Continued.

		p. c.	p. c.	p. c.	p. c.	p.	p. c.	p. c.	p. c.	p. c.	p. c.	
(591)	As guaranteed	.....	.....	.....	13.6	.....	.....	.....	.....	80.0	57277	Meets guarantee
	As found	.....	.....	.....	13.63	1.10	14.73	13.63	.....	86.0		
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	.....	80.0	57278	" "
	As found	.....	.....	.....	15.85	4.10	19.95	15.85	.....	93.6		
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	.....	80.0	57279	Evident mistake in identification. The sample is not a slag.
	As found	.....	.....	.....	6.70	1.05	7.75	6.70	6.22	.....	
(210)	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	6.0	.....	57280	Low in potash. Uncertain identification.
	As found	.....	2.25	5.85	2.60	1.50	9.95	8.45	4.43	.....	
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57281	Meets guarantee.
	As found	.....	2.15	5.21	2.96	1.59	9.83	8.24	7.45	.....	
(468)	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	57282	" "
	As found	.....	1.50	3.53	3.58	1.74	8.85	7.11	5.75	.....	
506	As guaranteed	1.65	2.00	6.0	2.0	1.0	9.0	8.0	4.0	.....	57283	Low in potash.
	As found	.....	2.30	4.15	4.65	2.23	11.03	8.80	1.95	.....	
356	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	57284	"
	As found	.....	2.23	5.88	3.23	1.97	11.08	9.11	2.18	.....	
405	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	57285	Deficient in potash but fully compensated by excess of nitrogen and phosphoric acid. May be a mistake in identification of the brand.
	As found	.....	3.30	5.88	3.23	1.97	11.08	9.11	4.24	.....	
1	As guaranteed	.....	.....	.....	12.0	.....	15.0	.....	.....	.....	57286	Meets guarantee.
	As found	.....	.....	.....	12.68	2.12	14.80	12.68	.....	.....
691	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.00	.....	57287	"
	As found	.....	.....	.....	.....	.....	.....	.....	51.36	.....	
446	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	2.0	.....	57288	"
	As found	.....	1.30	.....	5.08	1.77	6.85	5.08	5.37	.....	
447	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	5.0	.....	57289	"
	As found	.....	2.12	.....	5.62	2.23	7.85	5.62	6.33	.....	

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF								
1913.								
May 27	Mich. Carbon Virg. Tobacco Fertilizer	57290	P. Contant, St-Alexis.	3 lbs.	15	Mich. Carbon Works, Buffalo, N.Y.		
" 27	Mich. Carbon, Bone and Potash.	57291	"	"	"	"		
" 29	Fertilizer.	57292	D. Dupuis et Fils, St. George, P.Q.	"	"			
" 29	"	57293	"	"	"			
" 29	"	57294	"	"	"			
" 29	"	57295	"	"	"	German Kali Works, Berlin.		
" 29	"	57296	I. E. Dupuis, St. George, P.Q.	"	"	Mich. Carbon Works, Buffalo, N.Y.		
" 29	Mich. Carbon, North West'n Havana Tobacco Fertilizer.	57297	"	"	"	"	I. E. Julien, Quebec.	
" 30	Victor.	57298	Jos. Alexis Piette, Berthier.	"	Nil.	Cap. Chem. and Fert. Co., Buckingham		
" 30	Eureka	57299	"	"	"			
June 2	Mich. Carbon Works, Virg. Tobacco Fertilizer.	57300	Henri Leblanc, St. Jacques.	"	5	A.m. Agr. Chem. Co., New York.		
" 2	Fertilizer.	58301	"	"	Nil.	"		
" 9	North Western Havana Tobacco Grower.	58902	Alexandre Varin, St. Alexis.	"	"	"		
" 7	High Grade Potato Phosphate	58903	Thermas Durval, St. Esprit.	"	"	Nova Scotia Fert. Co.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample	Results of Analysis.							Potash.	Fineness.	No. of Sample	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

THREE RIVERS—Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
297	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	57290	Meets guarantee.
	As found	...	2.20	4.90	4.18	1.42	10.50	9.08	4.33	...	...
205	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	57291	"
	As found	...	2.10	5.13	2.63	1.44	9.20	7.76	4.07	...	...
53	As guaranteed	...	1.0	...	...	...	...	9.0	2.0	...	57292	Low in available phosphoric acid compensated by excess potash. Probable mistake in identification.
	As found	...	1.20	...	5.95	1.38	7.33	5.95	3.49	...	...
447	As guaranteed	1.65	2.0	...	5.0	1.0	6.0	5.0	5.0	...	57293	Meets guarantee.
	As found	...	2.10	...	6.02	1.78	7.80	6.02	5.98	...	...
448	As guaranteed	1.65	2.0	...	5.0	1.0	6.0	5.0	7.0	...	57294	"
	As found	...	1.80	...	6.46	1.44	7.90	6.46	7.69	...	...
17	As guaranteed	2.05	2.50	6.0	2.0	1.0	9.0	8.0	1.5	...	57295	Apparently a wrong registration number—is a potash salt of good quality.
	As found	...	...	...	...	...	...	...	51.16	...	...
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	57296	Meets guarantee.
	As found	...	2.30	4.95	3.75	1.25	9.95	8.73	4.04	...	...
(686)	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	57297	"
	As found	...	2.20	6.45	1.55	1.35	9.35	8.0	4.8	...	...
(83)	As guaranteed	...	2.0	...	...	...	...	7.0	2.0	...	57298	"
	As found	...	2.90	...	6.34	1.89	8.23	6.34	2.27	...	...
(85)	As guaranteed	...	3.0	...	...	...	...	5.0	4.0	...	57299	Low in nitrogen, but compensated in value. Uncertain identification.
	As found	...	1.90	...	6.32	3.18	9.50	6.32	4.50	...	...
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	57300	Meets guarantee.
	As found	...	1.85	5.18	3.22	1.08	9.48	8.40	6.83	...	...
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	58901	"
	As found	...	2.05	3.65	4.36	1.54	9.55	8.01	4.66	...	...
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	58902	"
	As found	...	2.20	4.20	4.34	1.39	9.93	8.54	4.60	...	...
687	As guaranteed	...	...	...	...	...	...	10.0	...	...	58903	"
	As found	...	...	4.21	2.08	0.74	7.03	6.29	9.84	...	...

5 GEORGE V., A. 1915

BULLETIN No. 264

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.								
june 4	Fertilizer.	58904	Ulric Beaudoin, St. Julienne.	3 lbs.	Nil.	Cap. Chem. and Fert. Co., Buckingham.		
" 6	"	58905	Felix Muloin, St. Roch.	" "	"	"		
" 9	Northwestern Havana Tobacco Grower.	58906	Felix Lebeau, St. Paul L'Ermite.	3 "	"	Am. Agr. Chem. Co., New York.		
" 5	Fertilizer.	58907	Frs. Godfrind, L'Assomption.	3 "	"	Lesage Packing and Fert. Co.		
" 10	"	58908	Camille Pelletier, St. Jacques.	3 "	5	"		
" 10	"	58909	"	3 "	5	"		
" 10	"	58910	"	3 "	5	"		
" 11	"	58911	K. Monahan, St. Lin.	3 "	Nil.	Cap. Chem. and Fert. Co., Buckingham.		
" 11	Bowkers Potash Bone.	58912	"	3 "	"	Bowker Fert. Co.		
" 11	Bowkers Superphosphate with Potash.	58913	"	3 "	"	"		
" 11	Virginia Tobacco Fertilizer.	58914	Alfred Henri, St. Lin.	3 "	"	Am. Agr. Chem. Co., Buffalo, N. Y.		
" 12	North Western Complete Manure.	58915	J. B. Limoges, St. Anne.	3 "	"	"		
" 12	North Western Havana Grower.	58916	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Phosphoric Acid per cent.									
				Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
83	As guaranteed	2.0						7.0	3.0			58904	Meets guarantee, nearly.
	As found	1.80		5.99	4.01	10.0	5.99	2.92					
83	As guaranteed	2.0						7.0	3.0			58905	Meets guarantee.
	As found	2.10		6.33	4.01	10.0	6.33	3.21					
686	As guaranteed	1.65	2.0	6.0	2.00	1.0	9.0	8.0	4.0			58906	Is a basic slag; incorrect registration number given by inspector.
	As found				14.33	4.50	18.83	14.33		89.9			
486	As guaranteed	3.7	4.5	6.0	2.0	1.0	9.0	8.0	9.0			58907	Incorrectly identified by inspector.
	As found				5.50	2.15	7.65	5.50	3.16				
448	As guaranteed	1.65	2.0		5.0	1.0	6.0	5.0	7.0			58908	Meets guarantee.
	As found		3.20		5.05	1.85	6.90	5.05	7.10				
331	As guaranteed	1.0	1.25		5.0	1.0	6.0		3.0			58909	"
	As found		1.00		5.20	2.15	7.35	5.20	3.59				
447	As guaranteed	1.65	2.0		5.0	1.0	6.0	5.0	5.0			58910	"
	As found		1.40		5.00	1.50	6.50	5.00	5.50				
	As found				5.61	3.47	9.08	5.61	2.12			58911	Inspector gives no registration number and cannot identify
404	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0			58912	
	As found		1.30	5.79	2.75	1.49	10.03	8.54	2.79				Meets guarantee.
402	As guaranteed			6.0	4.0	1.0	11.0	10.0	2.0			58913	"
	As found			7.55	3.89	1.89	13.33	11.44	2.13				
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0			58914	"
	As found		1.80	6.00	3.02	1.01	10.03	9.02	4.40				
226	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	3.0			58915	"
	As found		2.70	6.03	2.26	1.14	9.43	8.29	5.40				
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0			58916	Is a basic slag; incorrect registration given by inspector.
	As found				15.20	3.05	18.25	15.20		95.6			

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF EASTERN TOWNSHIPS—								
1913.								
Mar. 10	Thomas Phosphate Basic Slag.	1561	O. Lemire, Victoriaville.	3 jars	Nil.			
" 10	Michigan Carbon Wks., Complete Fertilizer.	1562	"	3 "	"	Mich. Carbon Wks., Buffalo		
" 13	Jupiter.....	1563	C. Mercier, St. Marie Beauce.	3 "	"	Geo. Tanguay, Quebec.		
" 17	Fruit and Vine.	1564	O. Bolduc, St. George de Windsor.	3 "	"	Mich. Carbon Wks., Buffalo		
April 15	Bowker 6 p. c. Potato.	1565	A. R. Dionne, South Durham.	3 "	"	Bowker Fert. Co., Boston.		
" 15	Sure Crop Phosphate.	1566	"	3 "	"	"		
" 15	Superphosphate with Potash.	1567	"	3 "	"	"		
" 15	Animal Fertilizer.	1568	G. H. Farquhar, South Durham.	3 "	"	Burlington Rendering Co., Burlington.		
" 15	Special Potato.	1569	"	3 "	"	"		
" 15	Grain Fertilizer.	1570	C. W. Nixon, L'Avenir.	3 "	"	"		
" 16	Eclipse Phosphate for all Crops.	1571	McLeay & Riddle Bros., Danville.	3 "	"	The Am. Agr. Co., Boston.		
" 16	Bone, Blood and Potash.	1572	H. Roux & Fils, Danville.	3 "	"	Prov. Chem. Fert. Co., St. John, N.B.		
" 16	Victor Guano.	1573	"	3 "	"	"		
" 16	Grain & Potash	1574	"	3 "	"	"		
" 16	Potato & Vegetable Phosphate	1575	D. Taylor, Richmond.	3 "	"	Bowker Fert. Co., Boston.		
" 16	Corn phosphate.	1576	"	3 "	"	"		
" 16	Potato & Vegetable.	1577	"	3 "	"	"		
" 17	Victor Complete	1578	L. F. Thibaudeau, Plessisville.	3 "	"	Cap. Chemical & Fert. Co., Buckingham.		
" 17	Royal Canadian	1579	"	3 "	"	"		
" 17	Union	1580	Geo. Lavoire, Plessisville.	3 "	"	Geo. Tanguay, Quebec.		
" 17	Celtic.	1581	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total, including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
591	As guaranteed				13.60							1561	Meets guarantee.
	As found				13.25	0.83	14.18	13.25		84.2			
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0			1562	"
	As found		2.37	5.70	2.48	1.50	9.68	8.18	4.13				
510	As guaranteed	2.06	2.5					8.0	5.0			1563	Potash slightly low; but value compensated by excess phosphoric acid.
	As found		2.40	11.20	1.10	1.03	13.33	12.30	3.51				
212	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0			1564	Meets guarantee.
	As found		2.50	5.08	2.96	1.52	9.55	8.03	9.76				
96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0			1565	"
	As found		1.05	3.63	3.29	1.31	8.23	6.92	7.69				
97	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0			1566	"
	As found		1.05	5.15	4.09	1.36	10.60	9.24	2.30				
99	As guaranteed			6.0	4.0	1.0	11.0	10.0	2.0			1567	"
	As found		1.17	5.35	3.76	1.57	10.68	9.11	2.47				
834	As guaranteed	2.0	2.5	2.85	2.15	3.0	8.0	5.0	4.0			1568	"
	As found		2.60	2.94	4.46	2.00	9.40	7.40	4.22				
832	As guaranteed	2.46	3.0	2.52	2.48	3.0	8.0	5.0	6.0			1569	"
	As found		3.0	3.46	3.95	1.09	8.50	7.41	6.22				
833	As guaranteed	1.0	1.25	4.71	2.29	1.0	8.0	7.0	4.0			1570	"
	As found		1.60	6.00	1.77	0.58	8.35	7.77	4.03				
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0			1571	"
	As found		1.50	5.08	3.34	1.51	9.93	8.42	2.46				
71	As guaranteed		2.0				7.0		4.0			1572	"
	As found		2.25		6.58	0.82	7.40	6.58	5.33				
68	As guaranteed		2.0				7.0		2.5			1573	"
	As found		2.10				9.85		2.62				
67	As guaranteed						12.0		2.0			1574	"
	As found				10.62	1.63	12.25	10.62	2.22				
92	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0			1575	"
	As found		1.90	4.00	4.13	1.47	9.60	8.13	2.05				
93	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0			1576	"
	As found		1.80	3.80	4.50	1.55	9.85	8.30	2.23				
716	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0			1577	"
	As found		2.18	4.08	4.44	1.26	9.78	8.52	5.14				
83	As guaranteed		2.0				7.0		3.0			1578	"
	As found		2.20				11.30		3.61				
	As guaranteed		4.0				9.0		5.0			1579	"
84	As found		4.75				9.10		5.91				
507	As guaranteed	2.47	3.0		8.0			8.0	3.5			1580	"
	As found		3.10		7.55	0.65	8.20	7.55	4.83				
512	As guaranteed							10.0	5.0			1581	"
	As found				10.39	1.04	11.43	10.39	4.94				

J. C. ROULEAU, INSPECTOR.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF EASTERN

1913.								
April 17	Nestor	1582	Geo. Lavoie, Plessville.	3 jars.	Nil.	Geo. Tanguay, Quebec.		
" 17	Capital	1583	"	3 "	"	"		
" 17	Monarch.	1584	"	3 "	"	"		
" 17	Jupiter	1585	"	3 "	"	"		
" 21	Fish Guano	1586	J. T. Ralston, Sutton.	3 "	"	National Agr. Corporation, Chicago.		
" 21	Bone & Potash Square Brand.	1587	J. T. Ralston, Sutton.	3 "	"	Bowker Fert. Co., Boston.		
" 12	Farmers' Choice.	1588	"	3 "	"	Nat Agr. Corporation, Chicago.		
" 21	Extra Superphosphate and Potash.	1589	"	3 "	"	"		
" 21	Pacific Nobisque Guano for all crops.	1590	R. J. Crowell, Sutton.	3 "	"	The Am. Agr. Chem. Co., Boston.		
" 21	Soluble Pacific Guano.	1591	"	3 "	"	"		
" 21	Reads Practical Potato Special.	1592	"	3 "	"	"		
" 23	Sure Crop Phosphate.	1593	Tinny & Loiselle, Waterloo.	3 "	"	Bowker Fert. Co., Boston.		
" 23	Vermont Phosphate.	1594	"	3 "	"	"		
" 23	Dissolved Phosphate.	1595	A. L. Ralston, Knowlton.	3 "	"	Bowker Fert. Co., Boston.		
" 23	Bradley's Potato Fertilizer.	1596	"	3 "	"	The Am. Agr. Chem. Co., Boston.		
" 23	Eclipse Phosphate for all crops.	1597	"	3 "	"	"		
" 24	Mich. Carbon Homestead Dissolved Bone.	1598	J. H. Aubin, East Angers.	3 "	"	Mich. Carbon Co., East Angers.		
" 25	Corn and Vegetable Fertil.	1599	L. A. Plante, St. Hyacinthe.	3 "	"	Lesage & Co., Ltd., Montreal.		
" 25	Thomas Phosphate.	39051	"	3 "	"	"		
" 25	Potato Fertilizer	39082	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

TOWNSHIPS—Continued.

638	As guaranteed	1.65	2.0	.....	.....	.....	.....	8.0	3.0	.....	1582	Meets guarantee.
	As found	.....	2.00	.....	10.87	1.13	12.00	10.87	3.44	.....	.....
511	As guaranteed	4.0	5.0	.....	.....	.....	.....	8.0	6.0	.....	1583	"
	As found	.....	6.40	.....	8.94	0.64	9.58	8.94	6.47	.....	.....
682	As guaranteed	1.67	2.0	.....	.....	.....	.....	9.0	8.0	.....	1584	"
	As found	.....	2.50	.....	9.14	1.09	10.23	9.14	10.36	.....	.....
510	As guaranteed	2.06	2.5	.....	.....	.....	.....	8.0	5.0	.....	1585	"
	As found	.....	3.50	.....	9.57	2.03	13.60	9.57	6.14	.....	.....
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	1586	"
	As found	.....	1.20	6.50	2.80	1.68	10.98	9.30	2.32	.....	.....
95	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	.....	1587	"
	As found	.....	1.21	4.35	2.16	0.72	7.23	6.51	2.78	.....	.....
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	1588	"
	As found	.....	1.18	4.20	3.55	2.03	9.78	7.75	5.66	.....	.....
636	As guaranteed	.....	.....	8.0	2.0	1.0	11.0	10.0	8.0	.....	1589	"
	As found	.....	0.17	8.90	1.38	2.05	12.33	10.28	7.20	.....	.....
16	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	1590	"
	As found	.....	1.30	3.85	4.21	1.72	9.78	8.06	2.14	.....	.....
14	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	1591	"
	As found	.....	2.50	5.20	3.37	1.38	9.95	8.57	1.89	.....	.....
9	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	8.0	.....	1592	"
	As found	.....	1.20	3.14	1.42	0.87	5.43	4.56	6.93	.....	.....
773	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	1593	"
	As found	.....	1.00	6.05	2.71	1.89	10.65	8.76	2.80	.....	.....
91	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	1594	"
	As found	.....	2.50	6.40	1.86	1.34	9.60	8.26	4.96	.....	.....
49	As guaranteed	.....	.....	12.0	.....	1.0	15.0	14.0	.....	.....	1595	"
	As found	.....	.....	11.85	1.53	3.67	17.05	13.38	.....	.....	.....
3	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0	.....	1596	"
	As found	.....	2.20	4.53	3.75	1.62	9.90	8.28	5.84	.....	.....
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	1597	"
	As found	.....	1.25	4.40	4.46	1.89	10.75	8.86	1.60	.....	.....
202	As guaranteed	.....	.....	10.0	2.0	1.0	13.0	12.0	.....	.....	1598	"
	As found	.....	.....	8.23	2.90	1.45	12.58	11.13	.....	.....	.....
447	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	5.0	.....	1599	"
	As found	.....	1.75	.....	6.33	1.47	7.80	6.33	5.74	.....	.....
338	As guaranteed	.....	.....	.....	12.0	2.0	14.0	.....	.....	.....	39081	Below guarantee. Is very coarsely ground.
	As found	.....	.....	.....	9.40	3.31	12.71	9.40	77.6	.....	.....
449	As guaranteed	2.47	3.0	.....	5.0	1.0	6.0	5.0	10.0	.....	39082	Meets guarantee.
	As found	.....	2.30	.....	6.59	1.21	7.80	6.59	9.74	.....	.....

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF EASTERN TOWNSHIPS—

1913.								
April 25	Fine Ground Bone.	39083	L. A. Plante, St. Hyacinthe.	3 jars.	Nil.	Lesage Packing and Fertilizer Co., Ltd., Montreal.		
" 25	Special for Tobacco.	39084	" " "	3 "	"	"		
" 25	Lesage Grain and Wheat Fertilizer.	39085	" " "	3 "	"	"		

DISTRICT OF MONTREAL—

April 8	Bradley's Potato and Vegetable.	51266	Dupuy & Ferguson, Jacques Cartier Square, Montreal.	3 lbs.	Nil.	Am. Ag. Chem. Co.		
" 8	Bean and Potato Phosphate.	51267	" " "	3 "	"	"		
" 8	Bradley B	51268	" " "	3 "	"	"		
" 9	Gilt Edge Potato and Tobacco Manure.	51269	Montreal Abattoirs Ltd., Montreal.	3 "	"	Vendors		
" 9	Corn and Cereal Special.	51270	" " "	3 "	"	"		
" 9	Montreal Special Potato Manure	51271	" " "	3 "	"	"		
" 9	4-7-10 Special ..	51272	" " "	3 "	"	"		
" 11	Lesage's Royal Potato Manure.	51273	Lesage Packing and Fert. Co., Montreal.	3 "	"	"		
" 11	Quebec Special..	51274	" " "	3 "	"	"		
" 11	Lesage's Tobacco Fertilizer.	51275	" " "	3 "	"	"		
" 11	Lesage's Grain and Wheat.	51276	" " "	3 "	"	"		
" 16	Crockers New General Crop.	51277	Lepailleur frères, Lachine, P.Q.	3 "	"			
" 26	Tobacco Manure	51278	Wm. Ewing Co., Ltd., Montreal.	3 "	"	W. A. Freeman Co., Ltd., Hamilton.		
" 26	Sure Growth....	51279	" " "	3 "	"	"		
" 26	Phosphate Powder.	51280	" " "	3 "	"	"		
" 26	Potato Manure.	51281	" " "	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
330	As guaranteed	2.47	3.0	.....	.....	.....	22.58	.....	.....	.....	39033	Meets guarantee.
	As found	.....	3.00	.....	16.63	9.60	26.23	16.63	.....	.....	.....
448	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	7.0	.....	39084	"
	As found	.....	2.10	.....	5.71	1.29	7.00	5.71	7.61	.....	.....
446	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	2.0	.....	39085	"
	As found	.....	1.80	.....	5.49	2.01	7.50	5.49	3.58	.....	.....

J. J. COSTIGAN, INSPECTOR.

735	As guaranteed	3.29	4.0	6.0	2.0	1.0	9.0	8.0	7.0	..	51266	Meets guarantee.
	As found	.....	3.10	7.70	1.87	0.96	10.53	9.57	7.47	.....	.....
250	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	51267	"
	As found	.....	1.25	7.48	1.52	1.00	10.00	9.0	4.84	.....	.....
259	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	51268	"
	As found	.....	1.20	7.38	1.76	1.11	10.25	9.14	4.92	.....	.....
555	As guaranteed	.....	3.0	.....	.....	.....	.....	7.0	10.5	.....	51269	*Much below guarantee in potash.
	As found	.....	2.65	.....	11.09	2.39	13.48	11.09	2.49	.....	.....
552	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	2.0	.....	51270	Meets guarantee.
	As found	.....	2.67	.....	9.38	3.32	12.70	9.38	3.98	.....	.....
556	As guaranteed	.....	1.0	.....	.....	.....	.....	8.0	5.0	.....	51271	Meets guarantee nearly.
	As found	.....	1.07	..	8.96	2.94	11.90	8.96	3.82	.....	.....
856	As guaranteed	4.0	4.58	.....	.....	.....	.....	7.0	10.0	.....	51272	Low in potash.
	As found	.....	4.80	.....	9.41	3.62	13.03	9.41	6.76	.....	.....
449	As guaranteed	2.47	3.0	.....	5.0	1.0	6.0	5.0	10.0	.....	51273	Meets guarantee.
	As found	.....	2.85	.....	6.81	1.87	8.68	6.81	12.14	.....	.....
331	As guaranteed	1.0	1.25	.....	5.0	1.0	6.0	.....	3.0	.....	51274	"
	As found	.....	1.31	.....	7.43	1.82	9.25	7.43	5.45	.....	.....
448	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	7.00	.....	51275	"
	As found	.....	1.89	.....	7.06	0.99	8.05	7.06	8.07	.....	.....
446	As guaranteed	.....	2.0	.....	5.0	1.0	6.0	5.0	2.0	.....	51276	"
	As found	.....	1.99	.....	7.21	1.12	8.33	7.21	3.07	.....	.....
301	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	1.0	.....	51277	"
	As found	.....	1.10	6.22	1.99	1.09	9.30	8.21	1.31	.....	.....
149	As guaranteed	2.47	3.0	5.0	2.0	0.25	7.25	7.0	5.0	.....	51278	"
	As found	.....	2.20	4.34	6.36	.52	12.22	10.70	6.47	.....	.....
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	.....	51279	"
	As found	.....	2.30	4.01	6.09	1.80	11.90	10.10	3.78	.....	.....
151	As guaranteed	.....	13.0	2.0	0.50	15.50	15.0	.....	.....	.....	51280	"
	As found	.....	14.93	1.62	1.03	17.58	16.55	.....	.....	.....	.....
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	.....	51281	"
	As found	.....	2.20	3.91	6.28	1.44	11.63	10.19	6.53	.....	.....

* Manufactures claims should be Reg. No. 552, when finding would be O.K.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VALLEYFIELD—

1913.								
April 22	Corn Phosphate	51356	Besner & Chasle, Valleyfield.	3 Lbs.	Nil.	Bowker Fert. Co.	Mfrs	
" 22	Sure Crop Phosphate.	51357	"	3 "	"	"	.....
" 22	North western Can. Potash.	51358	N. Langevin, Valleyfield.	3 "	"	"	.....
" 22	Thomas Phosphate Flour.	51359	"	3 "	"	"	.....
May 14	Bowkers Potato	51360	W. J. Boyd, La- chute, P.Q.	3 "		Bowker Fert. Co.	.....
" 14	Corn Phosphate	51361	"	3 "		"	.....
" 14	Bowkers Superphosphate with potash.	51362	"	3 "		"	.....
" 21	Royal Canadian	51363	D. M. Macpherson Lancaster, Ont.	3 "		"	.....

DISTRICT OF OTTAWA—

April 16	Bradley's New Method.	51768	H. Brown & Sons, Brockville.	3 Lbs.	Nil.	Amer. Agr. Chem. Co., Buffalo, N. Y.	.....
" 16	Bradley's Potato Fertilizer.	51769	"	3 "	"	"	.....
" 16	Bradley's Complete Manure for Potatoes Vegetables.	51770	"	3 "	"	"	.....
" 16	Bradley's B. D. Sea Fowl Guano	51771	"	3 "	"	"	.....
" 16	Read's High Grade Farmer's Friend.	51772	A. E. Cameron, Brockville.	3 "	"	Amer. Agr. Chem. Co., Carteret, N. J.	.....
" 16	Read's Standard Superphosphate	51773	"	3 "	"	"	.....
" 16	Read's Practical Potato Special.	51774	"	3 "	"	"	.....
" 16	Read's Corn, Wheat and Rye	51775	"	3 "	"	"	.....
" 16	Read's Pioneer.	51776	"	3 "	"	"	.....
" 16	Read's Farmer's Reliable.	51777	W. J. Wood, Smith's Falls.	3 "	"	"	.....
" 16	Read's All Crop.	51778	"	3 "	"	"	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

J. J. COSTIGAN, ACTING INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
409	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	51356	Deficiency in phosphoric acid.
	As found.....	.....	1.24	2.99	3.14	1.13	7.26	6.13	3.48	.....	.....	Meets guarantee in value.
406	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	51357	Meets guarantee.
	As found.....	.....	1.60	5.88	1.80	2.22	9.90	7.68	3.11	.....	.....
335	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	51358	"
	As found.....	.....	1.30	5.25	0.55	1.08	6.88	5.80	5.81	.....	.....
253	As guaranteed	.....	.....	.....	13.5	.....	18.0	.....	.....	.....	51359	"
	As found.....	.....	.....	.....	14.63	2.90	17.53	14.63	.....	87.5	.....
411	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	51360	Low in nitrogen and potash.
	As found.....	.....	1.00	7.15	2.21	1.74	11.10	9.36	2.30	.....	.....	Meets guarantee.
409	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	51361	
	As found.....	.....	2.50	3.85	4.40	1.85	10.10	8.25	2.39	.....	.....	"
402	As guaranteed	.....	.....	6.0	4.0	1.0	11.0	10.0	2.0	.....	51362	
	As found.....	.....	.....	7.03	2.73	2.32	12.08	9.76	3.29	.....	.....	"
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	51363	
	As found.....	.....	4.30	.....	10.03	2.75	12.78	10.03	5.45	.....	.....	"

J. A. RICKEY, INSPECTOR.

379	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	51768	Meets guarantee.
	As found.....	.....	1.20	6.40	2.35	1.35	10.10	8.75	2.67	.....	.....
392	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0	.....	51769	"
	As found.....	.....	2.40	6.30	2.23	1.22	9.75	8.53	2.72	.....	.....
394	As guaranteed	3.29	4.0	6.0	2.0	1.0	9.0	8.0	7.0	.....	51770	"
	As found.....	.....	3.80	6.15	2.39	1.09	9.63	8.54	7.22	.....	.....
188	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	51771	"
	As found.....	.....	2.40	5.00	3.02	1.28	9.30	8.02	2.38	.....	.....
743	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	.....	51772	"
	As found.....	.....	4.20	4.96	2.04	1.00	8.00	7.00	9.75	.....	.....
383	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	51773	"
	As found.....	.....	1.20	7.50	1.23	0.95	9.68	8.73	4.59	.....	.....
382	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	8.0	.....	51774	"
	As found.....	.....	1.20	2.32	2.27	1.11	5.70	4.59	8.42	.....	.....
234	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	51775	"
	As found.....	.....	2.00	5.80	3.20	1.38	10.38	9.00	4.50	.....	.....
738	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	51776	"
	As found.....	.....	1.20	6.55	2.77	0.88	10.20	9.32	2.50	.....	.....
737	As guaranteed	.....	.....	10.0	2.0	1.0	13.0	12.0	5.0	.....	51777	"
	As found.....	.....	.....	10.88	1.20	1.07	13.15	12.08	5.42	.....	.....
739	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	3.0	.....	51778	"
	As found.....	.....	1.00	7.83	2.59	0.68	11.10	10.42	3.21	.....	.....

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection	Designation.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1913.								
Apr. 18	Victor	51779	Cap. Chem. and Fert. Co., Buckingham.	3 lbs.	Nil	Vendors.....		
" 18	Reliance	51780	"	3 "	"	"		
" 18	Royal Canadian.	51781	"	3 "	"	"		
" 18	Eureka Tobacco.	51782	"	3 "	"	"		
" 18	Potato Special..	51783	"	3 "	"	"		
" 18	Corn Special...	51784	"	3 "	"	"		
" 18	Capleton	51785	"	3 "	"	"		
" 18	Monarch	51786	"	3 "	"	"		
" 21	Sure Growth Manure.	51787	K. McDonald & Sons, Ottawa.	3 "	"	The W. A. Mfrs. Freeman Co., Ltd., Hamilton.		
" 21	Pure Bone Meal.	51788	"	3 "	"	"		
" 21	Bone and Potash	51789	"	3 "	"	"		
" 21	Celery and Early Veg. Manure.	51790	"	3 "	"	"		

DISTRICT OF KINGSTON—

Apr. 22	Special Potash Mixture.	57301	John Gunyo, Brighton.	3 lbs.	10	A. M. Agr. Chem. Co., Buffalo.		
" 22	Bradley's B. D. Sea Fowl Guano	57302	"	3 "	10	"		
" 22	High Grade Potash Compound	57303	"	3 "	10	"		
" 22	Crookers New York Special Phosphate.	57304	"	3 "	10	"		
" 22	Bradley's Potato Fertilizer.	57305	"	3 "	10	"		
" 22	Bradley's Complete Man. for Potatoes and Veg.	57306	"	3 "	10	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis							No. of Sample.	Remarks as to Quality of the Fertilizer sold.
		Nitrogen per cent.		Phosphoric Acid per cent.						
		Total, including that of Nitric Acid or Ammonia if present.	Total, Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble	Total.	Total Available.		
	</									

Concluded.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
83 As guaranteed	2.0						7.0	3.0	51779	
As found	2.00		6.12	3.66	9.78	6.12	3.20			Meets guarantee nearly guaranteed.
86 As guaranteed	2.0					6.0		2.0	51780	
As found	2.40		7.23	1.70	8.93	7.23	2.70			Meets guarantee.
84 As guaranteed	4.0						9.0	5.0	51781	
As found	4.70		8.14	2.46	10.60	8.14	3.47			
85 As guaranteed	3.0						5.0	4.0	51782	
As found	3.00		6.28	1.90	8.18	6.28	3.81			
336 As guaranteed	2.0						6.0	8.0	51783	
As found	2.26		7.24	2.01	9.25	7.24	6.54			
82 As guaranteed	1.0					7.0		3.0	51784	
As found	1.20		9.15	1.98	11.13	9.15	3.00			
337 As guaranteed							7.0		51785	
As found			6.36	3.72	10.08	6.36				
857 As guaranteed	1.0						8.0	8.0	51786	
As found	3.70		7.66	1.34	9.00	7.66	10.06			
144 As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	51787	
As found		3.30	3.45	6.04	1.81	11.30	9.49	4.73		
146 As guaranteed	2.47	3.0		20.0	1.0	21.0	20.0		51788	Guarantee of available phosphoric acid unreasonably high. Meets guaranteed value.
As found		5.10		12.45	8.75	21.20	12.45			
147 As guaranteed		2.0					9.0	6.0	51789	
As found		2.20		8.34	1.41	9.75	8.34	8.52		Meets guarantee.
148 As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0	51790	
As found		5.10	2.48	4.63	1.33	8.45	7.18	8.27		

JAS. HOGAN, INSPECTOR.

181 As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	7.0	57301	
As found		1.25	6.95	2.43	1.17	10.55	9.38	7.38		Meets guarantee.
188 As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	57302	
As found		2.65	6.13	1.57	1.45	9.15	7.70	1.83		
182 As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	57303	
As found		2.20	3.10	4.80	1.55	9.45	7.90	10.84		
192 As guaranteed			8.0	2.0	1.0	11.0	10.0	8.0	57304	
As found			6.73	2.66	1.54	10.93	9.39	8.80		
392 As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0	57305	
As found		2.57	3.70	4.23	1.31	9.30	7.99	3.69		
294 As guaranteed	3.29	4.0	6.0	2.0	1.0	9.0	8.0	7.0	57306	
As found		4.20	5.85	2.77	1.33	9.95	8.62	7.28		

5 GEORGE V., A. 1915

BULLETIN No 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.								
April 22	Sure Growth Manure.	57307	Thompson Macdonald, Cobourg.	3 lbs.	10	W. A. Freeman Co., Ltd., Hamilton.		
	Potato Manure	57308	"	3 "	10	"		

DISTRICT OF TORONTO—

Mar. 17	Gunn's Shur-Crop General Garden No. 9.	57060	Gunn's Ltd., West Toronto.	3 lbs.	15	Vendors....		
" 17	Gunn's Shur-Crop Wheat Spec. No. 8.	57061	"	3 "	15	"		
" 17	Gunn's Shur-Crop Tobacco Producer No. 1.	57062	"	3 "	15	"		
" 17	Gunn's Shur-Crop Corn Manure No. 4.	57063	"	3 "	15	"		
" 17	Gunn's Shur-Crop Bean Grower No. 6.	57064	"	3 "	15	"		
" 18	Harab No. 1 Potato Special.	57065	Harris Abattoir Company, Ltd., Toronto.	3 "	15	"		
" 18	Harab No. 6 Cereal and Corn Ferter.	57066	"	3 "	15	"		
" 18	Harab No. 7 Potash Compound.	57067	"	3 "	15	"		
" 18	Harab No. 12 Lambton Special.	57068	"	3 "	15	"		
" 18	Harab No. 13 Farmer's Special.	57069	"	3 "	15	"		
" 19	Harab No. 2 General Garden.	57070	"	3 "	15	"		
" 19	Harab No. 5 Orchard.	57072	"	3 "	15	"		
" 19	Harab No. 15 Fall Wheat Special.	57073	"	3 "	15	"		
" 19	Harab No. 2 N. B. Potato Special with 10 p.c. Potash.	57074	"	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

KINGSTON—Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	...	57307
	As found.....	3.10	4.08	6.14	1.88	12.10	10.22	4.67	...	...	Meets guarantee.
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	...	57308
	As found.....	2.50	4.58	6.28	2.32	13.18	10.86	4.19	...	...	"

H. J. DAGER—INSPECTOR.

619	As guaranteed	3.0	3.64	5.0	...	...	5.0	6.0	...	57060	Meets guarantee.
	As found.....	3.50	1.00	7.08	1.32	9.40	8.08	7.16	...	...
618	As guaranteed	2.0	2.40	9.0	...	...	9.0	2.0	...	57061	"
	As found.....	1.93	6.68	2.58	2.12	11.38	9.26	1.94	...	...
611	As guaranteed	3.0	3.64	8.0	...	...	8.0	8.0	...	57062	"
	As found.....	3.32	3.83	5.38	2.22	11.43	9.21	8.58	...	...
614	As guaranteed	2.0	2.40	9.0	...	...	9.0	5.0	...	57063	"
	As found.....	2.40	6.08	2.30	2.00	10.38	8.38	6.10	...	...
616	As guaranteed	2.0	2.40	7.0	...	...	7.0	8.0	...	57064	"
	As found.....	2.20	3.90	4.30	1.70	9.90	8.20	8.82	...	...
471	As guaranteed	3.0	3.64	...	...	...	6.0	8.0	...	57065	"
	As found.....	3.60	...	...	...	8.63	...	8.20	...	...
701	As guaranteed	2.0	2.40	...	...	...	9.0	3.0	...	57066	"
	As found.....	2.50	...	...	...	9.43	...	3.06	...	...
476	As guaranteed	2.0	2.40	...	...	...	7.0	8.0	...	57067	"
	As found.....	2.49	...	...	...	7.63	...	9.52	...	...
652	As guaranteed	2.0	2.40	...	...	...	8.0	10.0	...	57068	"
	As found.....	2.80	...	...	...	9.33	...	10.92	...	...
633	As guaranteed	1.0	1.2	...	...	...	8.0	5.0	...	57069	"
	As found.....	1.25	...	...	...	8.60	...	4.74	...	...
472	As guaranteed	3.0	3.64	...	...	...	7.0	3.0	...	57070	"
	As found.....	3.62	...	...	...	7.78	...	2.93	...	...
654	As guaranteed	1.0	1.2	...	...	...	8.0	8.0	...	57072	"
	As found.....	1.40	...	...	...	8.75	...	7.84	...	...
663	As guaranteed	2.0	2.40	...	...	...	7.0	2.0	...	57073	"
	As found.....	2.45	...	...	...	8.40	...	2.28	...	...
696	As guaranteed	3.0	3.64	...	...	...	7.0	6.0	...	57074	"
	As found.....	2.90	...	7.24	0.94	8.18	7.24	10.27	...	...

5 GEORGE V., A. 1915

BULLETIN No. 264

Date of Collection.	Designation.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1913								
Mar. 20	Gunn's Shur-Crop Blood & Bone Compound No. 15.	57075	Gunn's Ltd., West 3 Toronto.	3 lbs.	15	Vendors		
" 20	Gunn's Shur-Crop Fertilizer. Fine Steamed Bone No. 13.	57076	" " "	3 "	15	"		
" 20	Gunn's Shur-Crop Potato & Celery Special No. 5.	57077	" " "	3 "	15	"		
" 20	Green Bone Meal	57078	" " "	3 "	15	"		No. reg. Number on Bag. Application has been made to Dept. for registration.
" 22	H. Brand Fertilizer.	57079	W. Harris & Co., Toronto.	3 "	15	"		Vendor said that application had been made to the Dept. for registration.
" 24	C-red Fertilizer	57080	The Wm. Davies Co., Ltd., West Toronto.	3 "	15	"		
" 24	Sure-Growth	57081	" " "	3 "	15	"		
" 24	General Crop...	57082	" " "	3 "	15	"		
" 24	Grape and Small Fruit Special.	57083	" " "	3 "	15	"		
" 24	Corn Special	57084	" " "	3 "	15	"		
" 25	Basic Slag, A Quality.	57085	" " "	3 "	15		The Cross Fert. Co., Ltd., Sydney, N.S.	
" 25	Tobacco Grower	57086	" " "	3 "	15	Vendors		
" 25	Potato Grower	57087	" " "	3 "	15	"		
" 35	Pure Bone Meal	57088	" " "	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. d.	p. c.		
657	As guaranteed	7.0	8.5	7.0				7.0	2.0		57075	Meets guarantee.
	As found.....		7.90	0.29	8.81	1.75	10.85	9.10	1.89			
623	As guaranteed	3.0	3.64	22.0				22.0			57076	Deficient in available phosphoric acid. Unreasonable claim; possibly an error in claim.
	As found.....		3.50	0.47	13.14	4.67	20.28	15.61				
615	As guaranteed	2.0	2.4	8.0				8.0	10.0		57077	Meets guarantee.
	As found.....		2.40		8.51	1.99	10.50	8.51	10.04			
											57078	Not identified and apparently not registered.
					11.85	11.78	23.63	11.85				
1980	As guaranteed	5.35	6.50	Trace.	7.02	5.35	12.37	7.02			57079	Meets guarantee.
	As found.....		7.30		7.86	4.27	12.13	7.86				
364	As guaranteed	2.06	2.5	6.0	3.0	2.0	11.0	9.0	2.0		57080	Meets guarantee.
	As found.....		2.60	8.05	3.14	1.61	12.80	11.19	2.77			
674	As guaranteed	2.47	3.0				10.0	9.0	3.0		57081	"
	As found.....		3.20		10.17	1.73	11.90	10.17	3.37			
249	As guaranteed	2.47	3.0				10.0	8.0	2.0		57082	"
	As found.....		3.20		8.20	1.15	9.35	8.20	2.09			
675	As guaranteed	1.64	2.0				9.0	8.0	10.0		57083	"
	As found.....		2.10		7.68	1.22	8.90	7.68	9.14			
669	As guaranteed	1.64	2.0				9.0	8.0	2.0		57084	"
	As found.....		2.00		8.31	1.67	9.98	8.31	1.81			
557	As guaranteed				12.80						57085	"
	As found.....				13.45	0.60	14.05	13.45		86.2		
369	As guaranteed	1.64	2.0	3.0	5.0	2.0	10.0	8.0	5.0		57086	"
	As found.....		3.70	2.94	6.62	1.32	10.88	9.56	6.84			
670	As guaranteed	2.47	3.0				7.0	6.0	10.0		57087	Low in potash, but fully up to total value.
	As found.....		3.10	3.90	5.24	7.25	16.39	9.14	8.00			
244	As guaranteed	3.29	4.0				20.0				57088	Meets guarantee.
	As found.....		3.68		12.05	11.53	23.58	12.05				

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.								
Mar. 25	Fine Steamed Bone.	57089	The Wm. Davies Co., Ltd., West Toronto.	3 lbs.	15	Vendors.....		
" 25	Bean and Pea Special.	57090	"	3 "	15	"		
" 26	Blood and Bone.	57091	"	3 "	15	"		
" 26	Hay and Meadow Special.	57092	"	3 "	15	"		
" 26	Sugar Beet Special.	57093	"	3 "	15	"		
" 26	Wheat Phosphate.	57094	"	3 "	15	"		
" 26	Potato Special..	57095	"	3 "	15	"		
April 28	Harab No. 11, Clover and Hay.	57096	The Harris Abattoir Co., Ltd., Toronto.	3 "	15	"		
" 28	Harab No. 3, Early Vegetable.	57097	"	3 "	15	"		
" 28	Harab No. 14, Tobacco Special.	57098	"	3 "	15	"		
" 28	Harab No. 4, Gardeners Special.	57099	"	3 "	15	"		
" 28	Harab Complete Fert., with 10 p.c. Potash.	57100	"	3 "	15	"		
" 30	Pure Ground Blood.	57196	"	3 "	15	"		
" 30	Harab No. 10, Blood and Bone.	57197	"	3 "	15	"		
" 30	Harab No. 8, Fine Steamed Bone.	57198	"	3 "	15	"		
May 1	Gunn's Shur-Crop Berry Special, No. 12.	57199	Gunn's Ltd., West Toronto.	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

TORONTO—Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
366	As guaranteed	4.93	6.0				22.0				57089	
	As found		6.70		16.88	7.15	24.03	16.88				Meets guarantee
668	As guaranteed	1.0	1.0				9.0	8.0	5.0		57090	
	As found		1.00	3.85	5.29	14.98	24.12	9.14	6.83			Meets guarantee. Great excess of phosphoric acid. Apparently mistaken identity of brand
678	As guaranteed	4.93	6.0				13.0	10.0			57091	
	As found		7.30		10.97	3.53	14.50	10.97	1.45			Meets guarantee
673	As guaranteed	3.3	4.0				6.0	5.0	3.0		57092	
	As found		3.60		6.87	1.06	7.93	6.87	4.62			"
667	As guaranteed	1.64	2.0				11.0	10.0	5.0		57093	
	As found		2.20		11.38	7.35	18.73	11.38	5.70			"
666	As guaranteed	1.64	2.0				11.0	10.0	2.0		57094	
	As found		1.80		9.24	1.84	11.08	9.24	2.73			"
360	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	3.0		57095	
	As found		4.40	1.81	6.59	1.05	9.45	8.40	9.15			Meets guarantee. Excess potash. Possible mistaken identity.
479	As guaranteed	6.0	7.28				3.0		5.0		57096	Meets guarantee
	As found		7.00				5.91		4.31			
473	As guaranteed	4.0	4.8				6.0		4.0		57097	"
	As found		4.90				7.58		3.90			
482	As guaranteed	3.0	3.6				8.0		6.0		57098	"
	As found		3.70				9.53		6.89			
655	As guaranteed	5.0	6.1				6.0		8.0		57099	Deficiency in potash.
	As found		5.71				7.58		4.86			
695	As guaranteed		4.0				7.0	6.0	10.0		57100	"
	As found		4.30		7.14	1.11	8.25	7.14	7.53			
653	As guaranteed	11.0	13.35				2.0				57196	Deficient in nitrogen.
	As found		11.65				1.14					
478	As guaranteed	7.0	8.5				10.0				57197	
	As found		8.13				9.25					Meets guarantee
293	As guaranteed	3.5	4.0				22.0				57198	Below guarantee in phosphoric acid.
	As found		3.48		13.99	4.67	18.66	13.99				
622	As guaranteed	1.0	1.2	8.0				8.0	8.0		57199	
	As found		1.2	4.33	3.42	0.93	8.68	7.75	8.17			Meets guarantee.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.

May	1 GunnsShur-Crop Bowling Green and Lawn Special.	57200	Gunns Ltd., West Toronto.	3 lbs.	15	Vendors.		
	1 GunnsShur-Crop Forcing Gr'th, No. 7.	57405	"	3	15	"		
	1 GunnsShur-Crop Sugar Beet Special, No. 2.	57406	"	3	15	"		
	1 GunnsShur-Crop Early Vegetable, No. 10.	57407	"	3	15	"		
	1 GunnsShur-Crop Pulverized Steamed Bone, No. 14.	57408	"	3	15	"		

DISTRICT OF HAMILTON

April	9 Bone Meal	57167	Ward and Kelly, Brantford, Ont.	3 lbs.	15	International Agr. Co., Buffalo, N. Y.		
	9 Wheat Special	57168	"	3	15	"		
	9 Extra Phosphate and Potash.	57169	"	3	15	"		
	9 Chapman's Tomato Special.	57170	"	3	15	"		
	9 Fruit and Vine	57171	The Brant Seed Co., Brantford.	3	15	Shael Sheldon Fert. Co., Buffalo.		
	9 Grass and Grain	57172	"	3	15	"		
	9 Stone Brand, XXX Potato Fertilizer.	57173	E. Pitts, Paris.	3	15	Wm. Stone & Sons, Ltd., Ingersoll.		
	10 Stone Brand Grain and Root Fertilizer.	57174	E. Pitts, Paris.	3	15	Wm. Stone & Sons, Ltd., Ingersoll.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen per cent.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

TORONTO—Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
613	As guaranteed	5.0	6.0	5.43	1.78	0.79	8.00	7.21	7.0	7.99	57200	Meets guarantee.
	As found	5.95	5.43	1.78	0.79	8.00	7.21	7.99				
617	As guaranteed	5.0	6.07	8.0			8.0	7.0	7.0		57405	Low in nitrogen. Explained as sampling of an incomplete mix.
	As found	4.06	6.45	1.56	0.94	8.95	8.01	7.15				
612	As guaranteed	2.0	2.4	6.0			6.0	9.0			57406	Meets guarantee.
	As found	2.15	2.95	3.51	0.99	7.45	6.46	8.55				
620	As guaranteed	4.0	4.86	6.0			6.0	7.0			57407	Below guarantee slightly.
	As found	3.0	3.70	5.23	1.20	10.13	8.93	6.72				
624	As guaranteed	3.0	3.64	22.0			22.0				57408	Below guarantee in phosphoric acid. Claim for available is unresponsible. Possible error in the claim.
	As found	4.36	0.44	13.71	6.10	20.25	14.15					

H. J. DAGGER, ACTING INSPECTOR

648	As guaranteed	2.40	3.0			22.0					57167	Meets guarantee, nearly.
	As found	3.0		13.16	7.37	20.53	13.16					
638	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5		57168	Meets guarantee.
	As found	2.50	4.50	3.37	2.01	9.88	7.87	2.65				
636	As guaranteed		8.0	2.0	1.0	11.0	10.0	8.0			57169	"
	As found		8.20	1.52	1.33	11.05	9.72	8.13				
644	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0		57170	"
	As found	2.50	5.85	2.60	1.55	10.0	8.45	9.82				
383	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0		57171	"
	As found	1.60	4.85	4.97	1.96	11.78	9.82	5.24				
356	As guaranteed	1.23	1.50	6.0	2.0	1.0	9.0	8.0	7.0		57172	"
	As found	1.90	5.60	3.05	1.24	9.90	8.66	7.84				
546	As guaranteed	1.64	2.0	6.50	1.50	1.25	9.25	8.0	6.0		57173	"
	As found	2.0	4.10	5.20	1.63	10.93	9.30	6.14				
545	As guaranteed	1.64	2.0	6.50	1.50	1.25	9.25	8.0	2.0		57174	"
	As found	2.15	4.33	5.18	1.64	11.15	9.51	2.07				

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF HAMILTON—								
1913.								
April 11	Crocker's Practical Potato Fertilizer.	57175	Howard L. Knox, Lynden.	3 lbs.	15	The Am. Agr. Chem. Co., N.Y.		
" 11	Crocker's Wheat and Corn Fertilizer.	57176	" " "	3 "	15	"		
" 11	Crocker's Best Potash Fertilizer.	57177	" " "	3 "	15	"		
" 11	Crocker's New York Special Phosphate.	57178	" " "	3 "	15	"		
" 15	Bowker's Market Garden Fertilizer.	57179	E. W. Moore & Son, Dunnville.	3 "	15	Bowker Fert. Co., Boston and N.Y.		
" 15	Farm and Garden Phosphate.	57180	" " "	3 "	15	"		
" 15	Crocker's Complete Manure.	57181	H. Bartlett, Dunnville.	3 "	15	The Am. Agr. Chem. Co., N.Y.		
" 15	Ideal Wheat and Corn.	57182	B. L. Edgecombe, Dunnville.	3 "	15	The International Agr. Co., Buffalo, N.Y.		
" 15	Sugar Beet Grower.	57183	" " "	3 "	15	"		
" 15	Fish Guano.	57184	" " "	3 "	15	"		
" 15	Celery and Potato Special.	57185	" " "	3 "	15	"		
" 15	Farmers Choice.	57186	" " "	3 "	15	"		
" 16	Bradley's B.D. Sea Fowl Guano.	57187	Titterington Bros., St. Catharines.	3 "	15	The Am. Agr. Chem. Co., N.Y.		
" 15	Celery and Early Vegetable Manure.	57188	The W. A. Freeman Co., Ltd., Hamilton.	3 "	15	Vendors,		
" 19	Potato Manure.	57189	" " "	3 "	15	"		
" 19	Sure Growth Manure.	57190	" " "	3 "	15	"		
" 19	Lawn Fertilizer.	57191	" " "	3 "	15	"		
" 19	Ontario Manure.	57192	" " "	3 "	15	"		
" 19	Pure Bone Meal	57193	" " "	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Phosphoric Acid per cent.						Potash.	Fineness.		
				Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
<i>Continued.</i>													
198	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	8.0			57175	Meets guarantee.
	As found	1.11	3.25	0.88	0.90	5.03	4.13	7.79					
195	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	1.5			57176	"
	As found	2.55	4.60	3.17	1.31	9.08	7.77	2.01					
194	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0			57177	"
	As found	2.05	5.30	3.11	1.64	10.05	8.41	10.58					
192	As guaranteed			8.0	2.0	1.0	11.0	10.0	8.0			57178	"
	As found			7.38	2.60	0.80	10.78	9.98	7.42				
578	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0			57179	Low in potash, but value compensated.
	As found	4.10	3.70	4.52	1.78	10.00	8.22	8.01					
577	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0			57180	Meets guarantee.
	As found	2.10	2.28	5.40	2.07	9.75	7.68	2.20					
380	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0			57181	"
	As found	1.00	6.70	0.87	1.18	8.75	7.57	4.04					
641	As guaranteed	1.60	2.0	7.0	2.0	1.0	10.0	9.0	5.0			57182	"
	As found	2.90	7.95	0.99	1.81	10.75	8.94	5.58					
640	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	4.0			57183	"
	As found	1.90	5.30	3.02	1.31	9.63	8.32	4.79					
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0			57184	"
	As found	1.10	5.80	3.20	1.23	10.23	9.00	3.44					
643	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.2	10.0			57185	"
	As found	1.95	6.00	2.40	1.10	9.50	8.40	9.60					
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0			57186	"
	As found	1.10	4.40	3.37	1.73	9.50	7.77	5.02					
188	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5			57187	"
	As found	2.56	4.78	3.04	1.23	9.05	7.82	2.31					
148	As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0			57188	"
	As found	5.61	7.63	2.77	1.13	11.53	10.40	5.78					
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0			57189	"
	As found	3.35	4.25	7.01	2.07	13.33	11.26	6.87					
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0			57190	"
	As found	2.40	4.05	6.49	1.71	12.25	10.54	3.13					
157	As guaranteed	2.47	3.0	5.50	3.50	0.25	9.25	9.0	4.0			57191	"
	As found	2.13	10.05	1.13	1.07	12.25	11.18	4.82					
374	As guaranteed		5.50	2.50	0.50	8.50	8.0	5.0				57192	"
	As found		7.25	1.39	0.76	9.40	8.64	4.78					
146	As guaranteed	2.47	3.0		20.0	1.0	21.0	20.0				57193	Essentially meets guarantee. Excessive claim for available phosphoric acid
	As found	5.29		12.95	8.85	21.80	12.95						

Continued.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF

1913.

April 24	Bone and Potash	57194	The W. A. Freeman Co., Ltd., Hamilton.	3 Bbls.	15	Vendors		
" 24	Tobacco Manure	57195	"	3 "	15	"		

DISTRICT OF WINDSOR—

April 15	Harab Potash Compound.	47987	M. J. Smith, Chatham, Ont.	3 jars.	Nil.	Harris Abattoir Co., Toronto.		
" 15	Davies Corn Special.	47988	F. W. Chartei's, Chatham.	3 "	"	Davies Co., Toronto.		
" 15	Davies Tobacco Special.	47989	"	3 "	"	"		
" 15	Cereal and Corn	47990	M. J. Smith, Chatham, Ont.	3 "	"	Harris Abattoir Co., Toronto.		
" 15	Potato Special.	47991	"	3 "	"	"		
" 15	Farmers Special.	47992	"	3 "	"	"		
" 15	Tobacco Special.	47993	"	4 "	"	"		
" 15	Davies Sugar Beet Special.	47994	F. W. Chartei's, Chatham.	3 "	"	Davies Co., Toronto.		
" 15	Davies Sure Growth.	47995	"	3 "	"	"		
" 15	Chapmans Tomato Special.	47996	J. D. Soutar, Chatham.	3 "	"	Buffalo Fert. Co., Buffalo.		
" 15	Ideal	47997	"	3 "	"	"		
" 15	Fish Guano	47998	"	"	"	"		
" 16	Bone, Blood and Potash.	54801	Wm. Stone & Sons, Ingersoll.	3 "	"	Vendors		
" 16	Garden Truckers	54802	"	3 "	"	"		
" 16	Fodder Special.	54803	"	3 "	"	"		
" 16	Tobacco Manure	54804	"	3 "	"	"		
" 16	Grain and Root	54805	"	3 "	"	"		
" 16	Potato and Beet.	54806	"	3 "	"	"		
" 16	Fruit Special.	54807	"	3 "	"	"		
" 16	Potato Manure	54808	A. Hasting & Sons, Woodstock.	3 "	12½	W. A. Freeman Co., Hamilton		
" 16	Sure Growth	54809	"	3 "	12½	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

HAMILTON—Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
147	As guaranteed	1.65	2.0	5.50	3.50	0.25	9.25	9.0	6.0	57194	Meets guarantee.
	As found		2.76	3.88	6.32	1.88	12.08	10.20	5.12		
149	As guaranteed	2.47	3.0	5.0	2.0	0.25	7.25	7.0	5.0	57195	Meets guarantee.
	As found		4.51	4.30	5.59	1.46	11.35	9.89	4.22		

JNO. TALBOT, INSPECTOR.

476	As guaranteed	2.0	2.4				7.0		8.0	47987	
	As found		2.25				8.93		6.49		Meets guarantee.
639	As guaranteed	1.64	2.0				9.0	8.0	2.0	47988	
	As found		1.77		7.78	1.27	9.35	7.78	1.17		Meets guarantee.
369	As guaranteed	2.47	3.0				10.0	8.0	6.0	47989	nearly
	As found		4.5		9.65	2.00	11.65	9.65	6.00		Meets guarantee.
701	As guaranteed	2.0	2.4				9.0		3.0	47990	
	As found		2.45				9.38		3.21		"
471	As guaranteed	3.0	3.64				6.0		8.0	47991	
	As found		3.25		7.74	2.29	10.03	7.74	9.00		"
633	As guaranteed	1.0	1.2				8.0		5.0	47992	Low in potash
	As found		1.22				6.34		3.00		and phosphoric acid.
482	As guaranteed	3.0	3.64				8.0		6.0	47993	
	As found		1.00				7.78		8.31		Meets guarantee.
667	As guaranteed	1.64	2.0				11.0	10.0	5.0	47994	
	As found		2.20		9.90	6.35	16.25	9.90	5.42		"
674	As guaranteed	2.47	3.0				10.0	9.0	3.0	47995	
	As found		3.90		11.03	1.87	12.90	11.03	3.05		"
644	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0	47996	
	As found		2.00	5.50	1.74	1.06	8.30	7.24	14.18		"
541	As guaranteed	1.60	2.0	7.0	2.0	1.0	10.0	9.0	5.0	47997	
	As found		2.00	6.60	2.53	1.47	10.60	9.13	5.18		"
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0	47998	
	As found		1.20	5.50	3.74	1.91	11.15	9.24	2.58		"
544	As guaranteed	3.29	4.0	5.5	2.5	1.5	9.5	8.0	7.0	54801	
	As found		3.40	4.50	5.75	1.50	11.75	10.25	6.67		"
543	As guaranteed	4.94	6.0	4.0	3.0	1.75	8.75	7.0	5.0	54802	
	As found		6.00	3.15	5.87	0.81	9.83	9.02	5.01		"
702	As guaranteed	0.82	1.0			1.0	10.0	9.0	2.0	54803	
	As found		0.95		9.13	1.20	10.32	9.13	1.64		"
541	As guaranteed	2.47	3.0	5.5	1.5	1.25	8.25	7.0	4.0	54804	
	As found		3.00	3.28	3.53	0.92	7.73	6.81	4.64		"
545	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	2.0	54805	
	As found		1.90	4.38	3.89	1.18	9.4	8.27	2.03		"
709	As guaranteed	1.64	2.0			1.25	9.25	8.0	6.0	54806	
	As found		1.9		8.08	1.42	9.50	8.08	5.30		"
539	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	10.0	54807	
	As found		2.00	5.73	3.01	1.11	9.85	8.74	9.33		"
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	54808	
	As found		2.50	4.40	5.60	2.15	12.15	10.00	4.82		"
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	54809	
	As found		2.70	3.60	6.48	2.43	11.93	9.48	2.79		"

5 GEORGE V., A. 1915

BULLETIN No. 264-

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cent.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR-

1913.								
April 16	Nitrate of Soda.	54810	A. Hastings & Son, Woodstock, Ont.	3 jars.	25	W. A. Freeman Co., Hamilton.		No label. No reg. number
" 16	Bone Black.	54811	A. Patrick, Wood- stock, Ont.	3 "	Nil.	Mich. Carbon Wks., Detroit		Could not read reg. number.
" 21	Fodder Special.	54812	O'Brien Bros., St. Marys, Ont.	3 "	"	Wm. Stone & Sons, Inger- soll.		
" 21	Potato Brand.	54813	"	3 "	"	"		
" 21	Homestead Bean Special.	54814	Frank Standeven, St. Marys, Ont.	3 "	"	Mich. Carbon Wks., Detroit		
" 21	A.I. Potash Fertilizer.	54815	"	3 "	"	"		
" 21	Bone Black.	54816	"	2 "	"	"		
" 21	Davies Lawn Dressing.	54817	J. A. Andrew, Stratford.	3 "	10	Davies Co., Toronto.		
" 21	Bone Meal.	54818	"	3 "	10	Nitrate Agencies Co., New- York.		No number.
" 22	Homestead Bone Black.	54819	Chas. Layton, Sea- forth.	3 "	Nil.	Mich. Carbon Wks., Detroit		
" 22	Grain and Root	54820	Ford & McLeod, Clinton.	3 "	"	Wm. Stone & Sons, Inger- soll.		
" 23	Tomato Special.	54821	Geo. Philp, jr., St. Thomas.	3 "	"	Buffalo Fert. Co., Buffalo.		
" 23	High Grade Ma- nure.	54822	"	3 "	"	"		
" 23	Celery and Pot- ato Special.	54823	"	3 "	"	"		
" 23	Dissolved Phos- phate.	54824	"	3 "	"	"		
" 24	Potato Manure.	54825	A. M. Hamilton, London, Ont.	3 "	10	W.A. Freeman Co., Hamil- ton.		
" 24	Canadian Man- ure.	54826	"	3 "	10	"		
" 24	Sure Growth.	54827	"	3 "	10	"		

DISTRICT OF ROCKY MOUNTAINS-

April 23	A. Fertilizer.	49877	Brackman Ker M. Co., Nelson, B.C.	3 lbs.	15	Victoria Chem. Co., Victoria, B.C.		
" 23	B.	49878	"	3 "	15	"		
" 23	C.	49879	"	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Phosphoric Acid per cent.									
				Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Finesness.			
Concluded.													
As		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
(153)	As guaranteed	15.0	18.0								54810	Meets guarantee as assumed.	
	As found		18.40										
(213)	As guaranteed	2.06	2.5	6.0	12.0	1.0	9.0	8.0	1.5		54811	"	
	As found		2.60	7.30	1.99	1.41	10.70	9.29	1.96				
702	As guaranteed	0.82	1.0			1.0	10.0	9.0	2.0		54812	Meets guarantee.	
	As found		1.11		9.22	1.43	10.65	9.22	2.12				
546	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	6.0		54813		
	As found		2.72	4.05	5.93	3.10	13.08	9.98	6.68				
525	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	3.0		54814	"	
	As found		2.26	6.88	1.51	1.64	10.03	8.39	3.70				
526	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	3.0		54815	"	
	As found		1.63	6.75	2.19	1.36	10.30	8.94	3.97				
213	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5		54816	"	
	As found		2.64	6.88	1.45	1.62	9.95	8.33	1.87				
361	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	3.0		54817		
	As found		4.44	1.02	6.20	1.78	9.0	7.22	3.37				
	As found		3.25		14.20	5.80	20.00	14.20			54818	Not identified and apparently not registered.	
213	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5		54819	Meets guarantee.	
	As found		2.55	6.03	3.11	1.81	10.95	9.14	1.77				
545	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	2.0		54820	"	
	As found		2.55	4.80	5.08	2.20	12.08	9.83	2.76				
644	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0		54821	"	
	As found		2.00	6.60	2.08	1.00	9.68	8.68	9.82				
647	As guaranteed	3.3	4.0	5.0	2.0	1.0	8.0	7.0	10.0		54822	"	
	As found		3.50	6.23	2.15	0.77	9.15	8.38	11.00				
648	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0		54823	"	
	As found		2.00	5.83	3.97	1.53	11.33	9.60	9.18				
634	As guaranteed			12.0	2.0	1.0	15.0	14.0			54824	"	
	As found			11.80	1.71	2.57	16.08	13.51					
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0		54825	"	
	As found		4.54	3.95	5.37	2.08	11.40	9.32	6.18				
375	As guaranteed	2.47	2.5	5.5	2.5	0.50	8.50	8.0	1.5		54826	"	
	As found		2.17	5.63	3.72	1.58	11.03	9.35	2.38				
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0		54827	"	
	As found		1.39	3.80	3.48	1.12	8.40	7.28	4.55				

THOS. PARKER, INSPECTOR.

73	As guaranteed	4.0	4.85	10.0					7.0		49877	Meets guarantee.
	As found		3.39	10.18	1.09	0.76	12.03	11.27	8.81			
74	As guaranteed	3.5	4.25	10.0					11.0		49878	"
	As found		3.80	9.35	1.72	0.76	11.83	11.07	10.44			
75	As guaranteed			12.5					11.0		49879	Low in potash.
	As found			13.18	1.80	1.12	16.10	14.98	9.26			

5 GEORGE V., A. 1915
BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ROCKY								
1913.								
April 23	Nitrate of Soda.	49880	Brackman Ker M. Co., Nelson, B.C.	3 lbs.	15	Victoria Chem. Co., Victoria, B.C.		
"	23 Sulphate of Potash.	49881	"	3 "	15	"		
"	23 Muriate of Potash.	49882	"	3 "	15	"		
"	23 Superphosphate of Lime.	49883	"	3 "	15	"		
"	23 A. Fertilizer.	49884	Swift Canadian Co., Nelson, B.C.	3 "	25	Swift Canadian Co., Edmonton.		
"	23 B. Fertilizer....	49885	"	3 "	25	"		
"	23 C. Fertilizer ..	49886	"	3 "	25	"		
"	23 A. Fertilizer....	49887	P. Burns & Co., Nelson, B.C.	3 "	15	P. Burns & Co., Calgary.		
"	23 B. Fertilizer....	49888	P. Burns & Co., Nelson.	3 "	15	P. Burns & Co., Calgary.		
"	23 C. Fertilizer ..	49889	"	3 "	15	"		

DISTRICT OF VANCOUVER—

April 26	B. & K. Bone Meal.	53486	Brackman Ker M. Co., Vancouver, B.C.	3 liv.	Nil.	Vendors.		
"	26 Blood.	53487	"	3 "	"	Vanc. Prince Rupert Meat Co., Vancouver, B.C.		Not registered.
"	26 B. Fertilizer.	53488	"	3 "	"	Vict. Chem. Co. Victoria, B.C.		
"	26 Slag.	53489	"	3 "	"	"		Not registered.
"	26 Dried Blood.	53490	Brown Bros., Vancouver, B.C.	3 "	"	P. Burns & Co., Vancouver, B.C.		
"	28 A. Fertilizer.	53491	Brackman & Ker, New Westminster, B.C.	3 "	"	Vict. Chem. Co. Victoria, B.C.		
"	28 Nitrate of Soda.	53492	"	3 "	"	"		
"	28 Superphosphate of Lime.	53493	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

MOUNTAINS—Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
77	As guaranteed	15.0	18.2							49886	
	As found		18.20								Meets guarantee.
78	As guaranteed							50.0		49881	
	As found							49.82			"
79	As guaranteed							50.0		49882	Nearly meets guarantee.
	As found							48.55			"
80	As guaranteed			16.0						49883	
	As found			19.18	1.10	20.28	19.18				Meets guarantee.
341	As guaranteed	4.12	5.0	6.87				12.0		49884	Low in potash.
	As found		5.9	trace.	5.60	2.00	7.60	5.60	9.53		
342	As guaranteed	4.52	5.50	7.32				9.0		49885	Meets essential guarantee.
	As found		5.50	0.17	5.92	1.46	7.55	6.09	9.32		
343	As guaranteed	4.93	6.0	7.78				6.0		49886	
	As found		6.12	0.42	7.47	2.81	10.70	7.89	7.37		"
430	As guaranteed	2.80	3.40	0.26	1.15	13.89	15.30	1.41	3.80	49887	
	As found		4.66	0.11	11.47	8.20	19.78	11.58	5.81		Meets guarantee.
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.20	9.39	4.77	49888	
	As found		9.23	0.36	8.13	2.56	11.05	8.49	4.82		"
432	As guaranteed	5.51	6.81	0.86	3.07	6.67	10.60	3.93	5.71	49889	
	As found		7.35	0.34	7.26	3.15	10.75	7.60	6.30		"

J. F. POWER, INSPECTOR.

335	As guaranteed	3.5				26.0				53486	
	As found	3.50		12.72	13.28	26.10	12.72				Meets guarantee.
	As found		14.50							53487	* Not registered.
74	As guaranteed	3.5	4.25			10.0		11.0		53488	
	As found		3.50			9.53		13.39			Meets guarantee.
	As found				17.00	1.68	16.0			53489	
603	As guaranteed	12.34	15.0			18.68	17.60		80.2	53490	"
	As found		15.10								"
73	As guaranteed	4.0	4.85			10.0		7.0		53491	
	As found		4.75			10.38		6.82			"
77	As guaranteed	15.5	18.8							53492	
	As found		18.30								"
80	As guaranteed					16.0				53493	
	As found					19.33					"

* Manufacturers claims sale as poultry food.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection	Designation.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF								
1913.								
April 28	Blood Fertilizer.	53494	Swift Canadian Co., Eburne, B.C.	3 lbs.	Nil.	Vendors.		Not registered.
" 28	Unground Tank age—Diamond I.	53495	"	3 "	"			
" 28	Rennie's Plant Food.	53496	Rennie & Co., Ltd., Vancouver, B.C.	3 pkgs.	40	"		
DISTRICT OF VICTORIA—								
April 25	Swift's Animal Fertilizer B.	53572	The Brackman M. Co., Ltd., Victoria, B.C.	3 lbs.	6	Swift's Canadian Co., Ltd., W'peg and Edmonton.		
" 25	Swift's Animal Fertilizer C.	53573	"	3 "	6			
" 25	Swift's Animal Fertilizer D.	53574	"	3 "	6	"		
" 25	B and K Bone Meal.	53576	"	3 "	6	Canadian North Pacific Fisheries Ltd., Victoria, B.C.		
" 25	Whale Guano	53577	"	3 "	6			No registered number or Analysis on sacks.
" 26	A. Fertilizer.	53578	Victoria Chem. Co., Ltd., Victoria, B.C.	3 "	6½	Vendors.		
" 26	B. Fertilizer	53579	"	3 "	6½			
" 26	C Fertilizer	53580	"	3 "	6½	"		
" 26	D. Fertilizer.	53581	"	3 "	6½	"		
" 26	Nitrate of Soda.	53582	"	3 "	9	Grace & Co., San Francisco, Cal.		
" 26	Sulphate of Potash.	53583	"	3 "	9	Myer, Wilson & Co., San Francisco, Cal.		
" 26	Muriate of Potash.	53584	"	3 "	9	"		
" 26	Bone Superphosphate of Lime.	53585	"	3 "	6½	Victoria Chem. Co., Ltd., Victoria, B.C.		
" 26	Rock Superphosphate of Lime.	53586	"	3 "	6½	Mountain, Copper Co., San Francisco, Cal.		Vendors stated that this is a new fertilizer, and has not been registered yet.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	As found.....		8.30								53494	
705	As guaranteed.....	4.93	6.0				10.0				53495	Not registered as per report of inspector.
	As found.....		7.40		15.28	11.45	26.73	15.28				Meets guarantee. Excess phosphoric acid above claim.
276	As guaranteed.....		2.5	8.0					2.0		53496	
	As found.....		3.40		10.48	1.42	11.90	10.48	5.45			Meets guarantee.
D. O'SULLIVAN, INSPECTOR.												
707	As guaranteed.....	4.52	5.0				7.32		9.0		53572	Deficiency of potash.
	As found.....		6.40				9.23		3.42			
708	As guaranteed.....	4.93	6.0				7.78		6.0		53573	Meets guarantee.
	As found.....		7.1				9.65		5.15			
344	As guaranteed.....	5.34	6.50	8.24					3.00		53574	Meets guarantee essentially.
	As found.....		6.82		6.81	2.07	8.88	6.81	5.07			
355	As guaranteed.....		3.5				25.0				53576	Meets guarantee.
	As found.....		3.30		12.58	13.15	25.73	12.58				
	As guaranteed.....	10.30	12.50								53577	Meets guarantee, as assumed; but not properly tagged.
589	As found.....		13.35									
73	As guaranteed.....	4.0	4.9	10.0					7.0		53578	Meets guarantee.
	As found.....		4.37	9.83	0.51	0.51	10.85	10.34	7.62			
74	As guaranteed.....	3.5	4.25	10.0					11.0		53579	Meets guarantee nearly.
	As found.....		4.2	9.85	1.05	0.60	11.50	10.90	10.11			
75	As guaranteed.....			12.5					11.0		53580	Deficient in potash.
	As found.....			14.75	0.31	0.97	16.03	15.06	8.52			
76	As guaranteed.....	2.5	3.04	10.0					11.0		53581	Meets guarantee.
	As found.....		2.97	10.18	0.67	0.60	10.85	10.25	11.05			
77	As guaranteed.....	15.5	18.8								53582	"
	As found.....		18.00									
78	As guaranteed.....								50.0		53583	"
	As found.....								49.25			
79	As guaranteed.....								50.0		53584	"
	As found.....								54.35			
80	As guaranteed.....			16.0							53585	"
	As found.....			17.20		0.28	17.48	17.20				
							16.0				53586	"
	As found.....						18.93					

APPENDIX H.

BULLETIN No. 265—SEIDLITZ POWDERS.

Wm. HODSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

OTTAWA, August 2, 1913.

SIR:—I beg to report upon 167 samples purchased by our inspectors as Seidlitz Powders in March and April of this year.

The British Pharmacopœia has the following foot-note (Ed. 1898, p. 273) 'Effervescent Tartarated Soda Powder is commonly known as Seidlitz Powder.'

The United States Pharmacopœia (8th revision) does not use the term 'Seidlitz Powder' except in the index, where it is identified with *Pulvis Effervescens Compositus*.

The B. P. Codex (1911) makes 'Seidlitz Powder' a synonym for 'Effervescent Tartarated Soda Powders.'

The directions of the British Pharmacopœia for this last are as below:—

	Imperial.	Metric.
	grains.	grammes.
Sodium Potassium Tartrate in dry powder	120	7.77
Sodium Bicarbonate in dry powder	40	2.59
Mix—Wrap in blue paper.....		
Tartaric Acid in dry powder	38	2.46
Wrap in white paper		

The *Pulvis Effervescens Compositus* of the U.S.P. has the following composition:—

	Gms.
Sodium Bicarbonate; dry, and in fine powder, thirty-one grammes.....	31
Potassium and Sodium Tartrate; dry, and in fine powder, ninety-three grammes.....	93
Tartaric Acid; dried, and in fine powder, twenty-seven grammes.	27

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Mix the Sodium Bicarbonate intimately with the Potassium and Sodium Tartrate; divide the mixture into twelve equal parts, and wrap each part in a separate blue paper.

Then divide the Tartaric Acid into twelve equal parts, and wrap each part in a separate white paper.

The contents of blue and white papers for both pharmacopœias are identical as to character. The slightly different amounts are shown as follows:—

	B.P.	U.S.P.
Blue paper.	10.36 grammes.	10.34 grammes.
White paper.	2.46 “	2.25 “

The B. P. Codex defines the following distinct varieties of Seidlitz Powders:—

Extra Strong Seidlitz Powders, in which the sodium potassium tartrate in each blue paper is increased by one-half.

Double Strength Seidlitz Powders, in which the sodium potassium tartrate is doubled in amount.

Improved Seidlitz Powders, in which the tartaric acid in the white paper is replaced by 35 grains of citric acid, flavoured with oil of lemon.

It is important to note that these powders possess quite distinctive names, and are not to be confounded with Seidlitz Powders.

In Seidlitz Powders, the contents of the blue paper should weigh 160 grains (10.36 grammes), and those of the white paper, 38 grains (2.46 gms.). It is by this standard that the results of weighing recorded in the tables are judged. The contents of two blue and of two white papers have been weighed, in the case of each sample; and the differences found may be taken to indicate the care with which the maker of the powder has worked. It is difficult to say what amount of variation in weight should be tolerated; but it is safe to conclude that differences in weight amounting to ten per cent of the weight of the powder, indicate great carelessness in weighing. Where such differences occur between the weights of two powders from the same package, I have used the words: ‘Carelessly weighed.’

Nineteen samples fall into this category as regards the blue paper; and ten samples as regards the white paper. It will be seen that great variation occurs in the actual weight of material, both in blue and in white papers. Instead of 160 grains for the total weight of the contents of the blue paper, I find amounts varying from 85 to 295 grains. If we regard 170 and 150 grains as permissible maximum and minimum weights (and I regard the latitude indicated as excessive) we find only 81 samples out of the total number within these limits, so far as the blue paper is concerned. Thirty-four samples weigh more than 170 grains; and 52 samples weigh less than 150 grains. It follows that fully 50 per cent of the total collection is adulterated under the Act, even by the liberal allowance suggested above—the blue paper being alone considered in the estimate.

The white paper should contain 38 grains of Tartaric Acid. This quantity is notably exceeded in comparatively few samples; and in some of these it is approximately proportional to the excess weight of the corresponding blue paper. Far more frequently the amount of tartaric acid is markedly below pharmacopœal requirements. In most of these samples the weight of the blue paper is correspondingly below standard, but this is not always the case.

It is to be remarked that the character of the material used in the manufacture of Seidlitz Powders, as illustrated by this inspection is good. It is also noteworthy that the mixture of Rochelle Salt and bicarbonate of soda contained in the blue paper is usually properly proportioned. In 19 samples the ratio between bicarbonate of soda and Rochelle Salt in the blue paper is quite abnormal, and I have used the word 'Abnormal' in relation to these samples.

As already stated, 29 samples show carelessness in weighing, by which phrase is implied that different powders (blue or white) from the same package are found to differ by more than 10 per cent in weight. This fact should constitute adulteration, inasmuch as pharmacopœal requirements are quite definite. Where, however, no other reason for holding the sample to be adulterated exists, I have not considered it necessary to charge adulteration, on the ground of careless weighing only. Twelve samples which indicate carelessness in weighing are nevertheless not judged to be adulterated. Adulteration is charged on the following grounds:—

(a) Deficiency of weight, where the weight of either blue or white paper falls 10 grains below the prescribed weight of 160 grains for contents of the blue; or 38 grains for the contents of the white. paper:—

	Samples.
Blue paper.	42
White paper.	5
	<hr/>
	47

(b) Excess of weight, where the weight of either blue or white paper exceeds by 10 grains the prescribed weight:—21 samples.

(c) Where, while the total weight of each paper falls within the limits indicated above, the proportion of the ingredients is decidedly abnormal:—5 samples. Total samples judged adulterated for reasons given—73.

RÉSUMÉ.

Passed as genuine.	82
Adulteration charged.	73
Carelessness in weighing.	12
	<hr/>
Total.	167

The foregoing report shows an unexpected degree of carelessness or of fraud, in the manufacture of Seidlitz Powders. This may be partly due to the impression that a Seidlitz Powder is in use merely as a cooling beverage or a mild aperient, having no very definite composition. This is not the understanding of physicians, nor does it accord with the definitions of the pharmacopœia, and it should be finally dispelled if it exist. The fact that the ingredients of these powders are frequently measured, instead of being weighed, into their respective papers, does not justify such irregularity of weight as is above recorded. Measuring can only be tolerated so long as it does not give results materially different from those attained by use of the balance.

Some druggists have complained that, owing to the sharp competition among manufacturers, they cannot afford to give great care to the preparation of Seidlitz Powders. This consideration cannot be permitted any cogency under the Act. The article known as Seidlitz Powder is a perfectly well-defined drug, and must be judged by the definition given in the pharmacopœia.

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I am of opinion that the limits of variability which I have assumed as permissible, are quite ample. Nevertheless, it must be confessed that we have no established authority in this matter of limits of variation. For this reason, and because this is the first general inspection of Seidlitz Powders under the Act, I would respectfully suggest that this report be published rather for the information and the warning of the trade than employed as the basis of prosecutions; and that it be printed as Bulletin No. 265.

I have the honour to be, Sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Mar. 6	Seidlitz Powders.	46946	Nat. Drug Co., Halifax, N.S.	1 doz	25	N. D. & C. Co., Montreal.	Mfrs.
" 7	"	46947	Kinley's Ltd., Halifax, N.S.	1 "	25	United Drug Co., Toronto, Ont.	"
" 7	"	46948	Brown Bros. & Co., Halifax, N.S.	1 "	25	Vendors.	"
" 10	"	46949	C. A. Barnstead, Halifax, N.S.	1 "	25	Vendor	"
" 10	"	46950	Buckley Drug Co., Halifax, N.S.	1 "	25	Vendors	"
" 10	"	46951	J. McD. Taylor, Halifax, N.S.	1 "	25	Wampole Co., Perth, Ont.	Mfrs.
" 10	"	46952	R. S. McDonald, Halifax, N.S.	1 "	25	Toronto Phar. Co., Toronto.	"
" 11	"	46953	H. A. Watson, Halifax, N.S.	1 "	25	N. D. & C. Co., Halifax, N.S.	"
" 19	"	46954	G. C. McDougall, Kentville, N.S.	1 "	25	United Drug Co., Toronto.	"
" 24	"	46955	Crowe Bros., Truro, N.S.	1 "	15	"	"
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 26	Seidlitz Powders.	46404	J. G. Jamieson, Charlottetown, P.E.I.	1 box	25	Vendor	"
Mar. 5	"	46405	Reddin Bros., Charlottetown, P.E.I.	1 "	25	Lyman Sons & Co., Montreal.	"
" 4	"	46406	The Two Maes, Charlottetown, P.E.I.	1 "	25	H. K. Wampole, Perth, Ont.	"
" 4	"	46407	The McKinnon Drug Co., Charlottetown, P.E.I.	1 "	25	United Drug Co., Toronto.	"
" 11	"	46408	C. D. Rankin, Charlottetown, P.E.I.	1 doz.	30	Howard & Sons, London, Eng.	"
Apr. 25	"	46409	Keir & McFadyen, Kensington, P.E.I.	1 pkge	25	Lyman Sons & Co., Montreal.	"
" 25	"	46410	Dr. F. W. Jardine, Kensington, P.E.I.	1 box.	25	Nat. Drug & Chem. Co. of Canada, Ltd.	"
" 25	"	46411	Gourlies Ltd., Summerside, P.E.I.	1 "	25	United Drug Co., Toronto.	"
" 25	"	46412	McLellan & Co., Summerside, P.E.I.	1 "	25	"	Gourhes Ltd., Summerside, P.E.I.
DISTRICT OF NEW BRUNSWICK—							
Feb. 27	Seidlitz Powders.	50580	William Hawker & Son, St. John, N.B.	3 pkgs	30	Toronto Phar. Co., Ltd., Toronto, Ont.	"
" 28	"	50581	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 pkg.	25	Vendors.	"
Mar. 6	"	50582	The Canadian Drug Co., Ltd., St. John, N.B.	1 "	25	"	"

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SEIDLITZ POWDERS.

Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Inspector's Report. (Is not an ex- pression of Opinion).	Tartrate Powder.			Acid Powder.				
	Weight of Powders in grains.	Bicarbo- nate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
				No. 1.	No. 2.			
	No. 1.	No. 2.			No. 1.	No. 2.		
R. J. WAUGH, INSPECTOR.								
			p. c.	p. c.		p. c.		
	145	146	26.2	72.0	25	26	99.75	46946 Deficient weight. Adulterated.
	157	158	25.2	72.6	36	37	99.75	46947
	170	171	24.4	74.7	40	42	99.75	46948
	156	159	25.6	73.6	40	41	99.40	46949
	118	142	25.8	74.7	40	49	99.75	46950 Carelessly weighed. Deficient weight. Adulterated.
	149	158	23.8	75.3	38	39	99.60	46951
	168	170	24.6	75.3	38	39	99.75	46952
	148	152	26.0	72.4	24	24	99.60	46953 Deficient weight. Adulterated.
	166	166	24.4	75.5	33	35	99.75	46954
	160	165	26.8	71.5	37	38	99.75	46955

WM. A. WEEKS, INSPECTOR.

	173	173	24.8	73.7	39	42	99.00	46404
	145	116	25.2	73.7	40	41	99.75	46405 Deficient weight. Adulterated.
	135	160	24.8	74.7	34	36	99.75	46406 Carelessly weighed.
	162	164	25.6	74.0	39	42	99.75	46407
	161	172	25.6	72.6	34	45	99.75	46408 Carelessly weighed.
	181	185	25.2	73.3	37	38	99.75	46409 Excess weight. Adulterated.
	143	147	25.2	73.3	30	31	99.75	46410 Deficient weight. "
	157	158	27.6	71.4	40	41	99.75	46411
	161	164	25.6	72.6	35	37	99.75	46412

J. C. FERGUSON, INSPECTOR.

	153	154	24.4	74.5	27	28	100.0	50580
	160	161	25.0	73.6	39	39	97.0	50581
	151	156	25.6	74.4	38	39	99.75	50582

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BULLETIN No. 265

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.			Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.		Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK

1913.								
Mar. 10	Seidlitz Powders.	50583	Frank E. Porter, St. John, N.B.	1 pkg.	25	Vendor.....		
" 12	"	50584	E. Clinton Brown, St. John, N.B.	1 "	25	"		
April 10	"	50585	Johnston & Johnston, St. Stephen, N.B.	1 "	25	United Drug Co. Ltd., Toronto.		
" 15	"	50586	John M. Wiley, Fredericton, N.B.	1 doz.	30	Vendor		
" 16	"	50587	The Baird Co., Ltd., Woodstock, N.B.	1 "	34	The Wingate Chem. Co., Montreal.		
" 23	"	50588	B. J. Sharp, Sussex, N.B.	1 box.	25	Gibson Howell & Co., Philadelphia, Pa.		
" 24	"	50589	The Leger Drug Co., Ltd., Moncton, N.B.	1 "	25	H. K. Wampole, Perth, Ont.		

DISTRICT OF QUEBEC

Feb. 24	Seidlitz Powders.	37163	Benjamin Crepeault, 68 Rue Cremasie Montcalmville.	12 pkg	15	Red Cross Phar. Co., Quebec.	N. Turcot & Cie. Quebec.	
" 25	"	37164	F. Racine, 66 Rue Cremasie, Montcalmville.	1 "	18	"	"	
" 25	"	37165	Dr. A. Fournier, 65 Rue Cremasie, Montcalmville.	1 "	25	W. Brunet & Cie. Quebec.	Mfrs.	
" 26	"	37166	Joseph Brulot, 11 Chenier St., Fole.	1 "	25	Red Cross Phar. Co., Quebec.	"	
" 27	"	37167	Francois Cliche, 4 em Rue 131 Stadacona, Quebec.	1 "	15	Dr. Ed. Morin & Cie, Quebec.	"	
Mar. 3	"	37168	Jos. F. Goslin, 50 Rue D'Orchester, Quebec.	1 "	20	"	"	
" 4	"	37169	Charle Martel, 49 Rue Artillery Quebec.	1 "	15	Unknown.....	Unknown...	
" 4	"	37170	A. Roy, 112½ Rue Scot, Quebec.	1 "	12	.....	W. Brunet & Cie, Quebec.	
" 5	"	37171	J. A. Martel, 155 Rue St. Patrick, Quebec.	1 "	20	L. E. Martel, 19 Rue St. Joseph Quebec.	Unknown ...	
" 5	"	37172	Ernest Tessier, 121 Rue Scot, Quebec.	1 "	15	Dr. Ed. Morin & Cie, Quebec.	Mfrs.	

DISTRICT OF THREE RIVERS

Mar. 18	Seidlitz Powders.	57229	Ernest Asselin, St. Felix de Valois.	1 box.	18	Chevalier Poulhot, Joliette.		
" 19	"	57233	Ecdras Asselin, St. Felix de Valois.	1 "	18	"		
" 22	"	57242	C. Barrette, Joliette	1 "	20	Jos. Contant, Montreal.		

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SEIDLITZ POWDERS.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion).	Tartrate Powder.				Acid Powder.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.			
	No. 1.	No. 2.			No. 1.	No. 2.		
.....	145	146	26.6	72.5	21	24 97.50	50583	Deficient weight. Adulterated.
.....	133	140	25.2	73.4	43	44 99.00	50584	" "
Real Seidlitz Powders.	156	159	27.7	71.3	35	36 99.75	50585	
.....	123	165	21.8	77.7	29	32 99.75	50586	Carelessly weighed.
Specially prepared for Vendors.	126	128	26.0	72.9	24	25 99.00	50587	Deficient weight.
.....	162	169	24.8	74.4	36	40 99.75	50588	
.....	177	178	24.4	75.0	36	38 99.75	50589	Excess weight.

F. X. W. E. BELAND, INSPECTOR.

.....	138	143	68.0	32.0	39	36 99.40	37163	Abnormal. Deficient weight. Adulterated.
.....	171	165	69.7	30.2	35	36 99.75	37164	Abnormal. Adulterated.
.....	292	295	77.7	21.8	32	32 99.75	37165	" " Excess weight.
.....	135	147	66.8	33.2	33	32 99.75	37166	Abnormal. Adulterated. Deficient weight.
.....	138	119	50.8	49.0	37	38 99.40	37167	Carelessly weighed. Abnormal Adulterated. Deficient weight.
.....	128	128	55.0	38.8	41	44 99.75	37168	Abnormal. Adulterated. Deficient weight.
.....	160	165	26.6	73.4	42	45 99.40	37169	
.....	273	270	77.0	23.0	34	36 99.75	37170	Abnormal. Adulterated. Excess weight.
.....	170	182	22.7	76.6	50	54 98.65	37171	Excess tartaric acid. Excess total weight. Adulterated.
.....	172	181	78.1	21.5	31	33 99.75	37172	Abnormal. Adulterated. Excess weight.

DR. V. P. LAVALLEE, INSPECTOR.

.....	168	169	76.0	24.7	29	31 99.10	57229	Abnormal. Adulterated.
.....	160	171	72.2	27.9	30	30 99.40	57233	Abnormal. Adulterated. A third powder of this number was found to be normal.
.....	160	165	25.8	74.4	25	25 99.75	57242	Deficient weight. Adulterated.

B GEORGE V., A. 1915

BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1913.							
Mar. 16	Seidlitz Powders.	1534	Pharmacie Messicotte, Victoriaville.	1 box	25	Vendors	
" 17	"	1535	A. J. Bedard, Richmond	1 "	25	The T. Milburn Co., Ltd., Toronto.	
" 18	"	1536	W. J. H. McKindsey, Lennoxville.	1 "	25	Lyman Knox, Montreal.	
" 18	"	1537	Dr. Lambly, Cookshire.	1 "	25	Lyman's Ltd., Montreal.	
" 19	"	1538	John West, Magog.	1 "	25	Nat. Drug Co., Montreal.	
April 4	"	1539	L. D. Girouard, Drummondville.	1 "	25	H. K. Wampole, Perth, Ont.	
" 23	"	1540	J. T. Dozois, Granby	1 "	25	Toronto Pharmacy Co., Toronto.	
" 23	"	1541	C. H. Welch, Waterloo	1 "	25	Nat. Drug Co., Montreal.	
" 25	"	1542	Pharmacie Viger, St. Hyacinthe.	1 "	20	Vendor	
" 25	"	1543	Dr. E. St. Jacques, St. Hyacinthe.	1 "	25	Unknown	Unknown

DISTRICT OF MONTREAL—

Feb. 24	Seidlitz Powders.	51201	C. A. Campagne, 717 Ont. St., Maisonneuve.	1 box	20	Toronto Pharmacy Co., Ltd., Toronto.	
" 24	"	51202	Dr. D. Chouinard, Adam St., Maisonneuve.	1 "	20	Vendor	
" 27	"	51203	A. Lebeau, 465 St. James St., Montreal.	1 doz.	25	"	
" 27	"	51204	A. M. Brunnette, 1018 St. James St., Montreal.	1 "	25	Lyman's Ltd., Montreal.	
Mar. 3	"	51205	A. D. Mann, 190 Villeneuve St. W., Montreal.	1 box	25	. . . . .
" 3	"	51206	L. S. Desautels, 1661 St. Lawrence B., Montreal.	1 doz.	25	. . . . .
" 4	"	51207	O. T. Pinck, 348 Notre Dame St. W., Montreal.	1 "	25	Nat. Drug & Chem. Co.	
" 4	"	51208	J. Pigeon, 412 Notre Dame St. W., Montreal.	1 box	25	Toronto Pharmacy Co., Ltd.	
" 4	"	51209	Dr. Leduc Drug Co., 456 Notre Dame St. W., Montreal.	1 "	25	Vendors	
" 4	"	51210	Lyons Cut Rate Drug Store, 10 Bleury St., Montreal.	1 "	15	Lyman's Ltd.,	

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SEIDLITZ POWDERS

[illegible]

J. C. ROULEAU, INSPECTOR.

			p. c.	p. c.			p. c.		
.....	152	161	25.0	73.2	52	57	99.70	1534	Excess tartaric acid. Adulterated.
Reg. No. 71...	92	105	25.2	72.9	20	26	99.70	1535	Carelessly weighed. Deficient weight. Adulterated.
.....	169	176	25.0	73.2	51	52	99.75	1536	Excess tartaric acid. Adulterated.
.....	153	156	19.7	79.0	42	42	99.75	1537	Abnormal. Adulterated.
.....	140	145	26.2	72.1	26	26	99.80	1538	Deficient weight. Adulterated.
.....	150	163	23.1	74.4	36	38	99.75	1539	
.....	152	155	25.6	73.0	41	42	99.75	1540	
.....	156	158	25.4	73.2	37	37	99.60	1541	
.....	129	135	27.3	71.3	33	36	99.80	1542	Deficient weight. Adulterated.
.....	210	213	19.3	78.2	38	40	99.90	1543	Abnormal. Excess weight. Adulterated.

J. J. COSTIGAN, INSPECTOR.

168	164	25.9	72.7	28	29	99.75	51201	
156	159	25.1	74.9	38	38	100.0	51202	
186	197	24.6	73.9	36	40	52.8	51203	Adulterated. Excess weight.
156	163	24.4	75.6	37	37	99.75	51204	
158	158	25.1	75.0	36	36	99.75	51205	
170	174	25.4	74.1	40	45	100.0	51206	
156	158	25.6	74.7	38	33	99.75	51207	
163	170	24.8	75.2	28	28	99.75	51208	
155	157	25.8	74.2	42	47	99.75	51209	
157	160	24.6	75.5	35	37	100.0	51210	

5 GEORGE V., A. 1915

BULLETIN No. 265

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD							
1913.							
Mar. 13	Seidlitz Powders.	51316	W. Plante, Valleyfield, P.Q.	1 box.	25	Wingate Chem. Co., Ltd., Montreal.	
" 13	"	51317	Dr. S. W. Laroche, Valleyfield, P.Q.	1 "	25	H. K. Wampole Co., Perth, Ont.	
" 13	"	51318	The Ind. Co-op. Soc., Ltd., Valleyfield, P.Q.	1 "	25	B. E. McGale, Montreal.	
" 19	"	51319	D. J. McIntosh, Vankleek Hill, Ont.	1 "	25	Toronto Pharmacy Co., Ltd., Toronto.	
" 19	"	51320	P. J. McLaurin, Vankleek Hill, Ont.	1 "	25	Lyman's Ltd., Montreal.	
" 19	"	51321	E. P. Elridge, Vankleek Hill, Ont.	1 "	25	United Drug Co., Toronto.	
" 20	"	51322	W. A. McCrea, Hawkesbury, Ont.	1 "	25	H. K. Wampole Ltd., Perth, Ont.	
" 20	"	51323	Banford & Dunning, Hawkesbury, Ont.	1 "	25	Wingate Chem. Co., Montreal.	
" 24	"	51324	John McLeister, Alexandria, Ont.	1 "	25	Toronto Pharmacy Co., Ltd., Toronto.	
" 24	"	51325	Brock, Ostrom & Son, Alexandria, Ont.	1 doz.	25	Lyman's Ltd., Montreal.	
DISTRICT OF OTTAWA							
Feb. 28	Seidlitz Powders.	51730	M. E. Cormier, Aylmer, P.Q.	1 box.	20	J. L. Rochester, Mfrs. Ltd., Ottawa.	
" 21	"	51731	Mrs. Barrett, Cornwall.	1 "	25	T. Milburn & Co., Toronto.	
" 24	"	51732	Wm. J. Kelly, Arnprior.	1 "	30	Wingate Chem. Co., Ltd., Montreal.	H. N. Bate & Sons, Ottawa.
" 27	"	51733	C. J. Neate, Sussex St., Ottawa.	1 "	15		J. G. Whyte & Sons, Ottawa.
" 27	"	51734	W. H. McCreery, Creighton St., Ottawa.	1 "	15	Ottawa Drug Co., Mfrs. Ottawa.	
" 27	"	51735	E. Ackland, Creighton St., Ottawa.	1 "	15	Provost & Allard, Ottawa.	
" 27	"	51736	P. Daoust & Cie, Hull, P.Q.	1 "	15	F. F. Dalley Co., Ltd., Hamilton.	
" 27	"	51737	A. Labelle, Hull, P.Q.	1 "	15	P. H. Derocher, Hull, P.Q.	
" 27	"	51738	E. McEwen, Hull, P.Q.	1 "	15	Frank P. Savage, Ottawa.	
" 27	"	51739	R. Picard, Hull, P.Q.	1 "	15	Hull Medical Hall, Hull, P.Q.	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.					
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.			
	No. 1.	No. 2.			No. 1.	No. 2.				

J. J. COSTIGAN, ACTING INSPECTOR.

			p. c.	p. c.		p. c.		
.....	128	129	29.0	70.5	25	25	99.75	51316 Deficient weight. Adulterated.
.....	148	153	22.0	77.7	24	29	99.90	51317 " "
.....	140	142	24.8	73.6	40	41	99.65	51318 " "
.....	145	164	25.0	73.2	26	27	99.75	51319 Carelessly weighed.
.....	152	159	23.8	72.5	39	41	99.75	51320
.....	151	157	26.6	71.6	41	43	99.80	51321
.....	168	175	25.0	73.9	39	43	99.80	51322
.....	85	119	26.2	72.6	22	26	100.0	51323 Carelessly weighed. Deficient weight. Adulterated.
.....	164	165	24.8	74.2	36	41	99.90	51324
.....	135	141	25.6	72.6	36	38	99.75	51325 Deficient weight. Adulterated.

J. A. RICKEY, INSPECTOR.

.....	161	162	28.3	72.7	38	36	99.75	51730
.....	105	98	25.2	75.0	31	31	99.75	51731 Deficient weight. Adulterated.
.....	122	123	27.3	72.7	26	17	99.75	51732 Carelessly weighed. Deficient weight. Adulterated.
.....	156	147	25.3	74.7	37	39	99.75	51733
.....	138	128	27.5	72.3	35	34	100.0	51734 Deficient weight. Adulterated.
.....	126	129	23.6	76.4	29	28	99.75	51735 " "
.....	118	125	24.3	75.7	43	39	99.75	51736 " "
.....	127	124	26.7	73.3	31	30	99.40	51737 " "
Genuine Imperial Seidlitz Powders.	141	149	43.0	57.0	19	19	99.75	51738 Abnormal. Adulterated. Deficient weight.
.....	155	149	25.1	74.8	35	38	100.0	51739

5 GEORGE V., A. 1915
BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Mar. 10	Seidlitz Powders.	45775	T. B. Wallace, Napanee.	1 box.	25	United Drug Co.	Toronto.
" 10	"	45776	F. L. Hooper, Napanee.	1 "	25	Vendor.	
" 10	"	45777	D. B. Bleecker, Belleville.	1 "	25	"	
" 10	"	45778	J. S. McKeown, Belleville.	1 "	25	United Drug Co.	Toronto.
" 10	"	45779	Belleville Pharmacy, Belle ville.	1 "	25	Vendor.	
Feb. 20	"	53077	W. M. Medley, Kingston.	1 pkg.	25	Wampole, Perth, Ont.	
" 21	"	53078	T. H. Sargent, Kingston.	1 "	25	"	
" 21	"	53079	C. S. Prouse, Kingston.	1 "	25	Lyman Co., To- ronto.	
" 21	"	53080	A. P. Chown, Kingston.	1 "	25	Wampole, Perth, Ont.	
" 21	"	53081	Geo. Mahood, Kingston.	1 "	25	Vendor.	
" 24	"	53082	J. S. McKeown, Belleville.	1 box.	25	United Drug Co.	Toronto.
" 24	"	53083	Belleville Pharmacy, Belle-ville.	1 pkg.	25	Vendor.	
" 25	"	53084	W. H. Semple, Cobourg.	1 "	25	"	
" 25	"	53085	W. J. B. Davison, Port Hope.	1 "	25	Drug Trading Co., Toronto.	
" 25	"	53086	Warne Drug Co., Ltd., Peter- boro.	1 "	25	Nat. Drug Co., Toronto.	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.					
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.			
	No. 1.	No. 2.			No. 1.	No. 2.				
JAS. HOGAN, INSPECTOR.				p.c.	p.c.			p.c.		
	159	162	25·4	73·6	38	39	99·90	45775		
	144	147	25·2	73·4	28	33	99·75	45776	Carelessly weighed.	Deficient weight. Adulterated.
	157	157	24·0	74·2	35	35	99·60	45777		
	157	157	28·1	70·4	37	38	99·75	45778		
	197	205	25·0	73·6	55	55	99·90	45779	Over weight and excess tartaric acid.	Adulterated.
	173	182	25·4	73·6	42	40	99·40	53077	Excess weight.	Adulterated.
	174	177	25·0	73·6	42	39	99·40	53078	"	"
	165	166	25·2	72·9	35	36	99·75	53079		
	159	169	27·1	73·9	32	30	100·0	53080		
	145	154	33·2	65·4	52	47	99·75	53081	Excess tartaric acid.	Abnormal Adulterated.
	147	149	29·7	72·6	51	52	99·75	53082	Excess tartaric acid.	Adulterated.
	195	197	25·0	75·5	54	54	99·76	53083	Over weight and excess tartaric acid.	Adulterated.
	100	112	28·1	75·5	23	24	99·75	53084	Carelessly weighed.	Deficient weight. Adulterated.
	152	155	26·6	76·3	39	40	99·40	53085		
	127	138	26·0	75·0	23	24	99·75	53086	Deficient weight.	Adulterated.

H. J. DAGER, INSPECTOR.

Labelled genuine weight Seidlitz Powders.	156	160	25·2	73·6	37	39	99·75	57031		
Labelled genuine full weight Seidlitz Powds.	163	175	25·2	73·4	38	40	99·75	57032		
"	118	127	24·6	74·4	28	28	99·65	57033	Deficient weight.	Adulterated.
Labelled Carter's Perfect Seid. Powds. No. 442 P. or P. M. act.	92	102	25·2	73·2	31	34	99·00	57034	"	"
Labelled Highly Imported Seid. Powders.	131	165	24·6	74·4	36	35	99·75	57035	Carelessly weighed.	
Labelled full weight Seidlitz powders.	158	159	25·2	72·4	39	40	99·75	57036		

5 GEORGE V., A. 1915

BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1913.							
Mar.	6	Seidlitz Powders.	57037 H. B. Mitchell, 1928 Queen St., East, Toronto.	1 doz.	25	.....	Lyman Bros. Co. Ltd., Toronto.
"	10	"	57038 E. E. Rutherford, 400 Spadina Ave., Toronto.	1 "	25	Vendor .....	.....
"	12	"	57039 W. H. Lee, Ave. Road & MacPherson Ave., Toronto.	1 " ..	25	" .....	.....
"	12	"	57040 N. A. Vetter, 55 Ave. Road, Toronto.	1 " ..	25	" .....	.....

DISTRICT OF HAMILT N—

Apr.	8	Seidlitz Powders.	57131 H. E. Perrott, King & Colborne Sts., Brantford.	1 doz.	25	Vendor .....	.....
"	9	"	57132 M. H. Robertson, 72 Erie St., Brantford.	1 " ..	30	" .....	.....
"	10	"	57133 H. A. Crooks, Paris	1 " ..	25	" .....	.....
"	17	"	57134 F. W. Jeffs, 68 King St., St. Catharines.	1 " ..	25	" .....	.....
"	17	"	57135 Walker, Abbs & Co., 295 St. Paul St., St. Catharines.	1 " ..	30	Vendors .....	.....
"	17	"	57136 J. L. Macartney, Erie Ave., Niagara Falls.	1 " ..	35	Vendor .....	.....
"	18	"	57137 W. W. Kerr, 829 Ferry St., Niagara Falls South.	1 " ..	30	" .....	.....
"	18	"	57138 The Hennesey Drug Stores, Ltd., 268 King St. west, Hamilton.	1 " ..	30	Vendors .....	.....
"	19	"	57139 E. B. Mealley, 165 King St. east, Hamilton.	1 " ..	25	Vendor .....	.....
"	23	"	57140 Hawkins Ltd., 6 Market Square, Hamilton.	1 " ..	20	Vendors .....	.....

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.					
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.			
	No. 1.	No. 2.			No. 1.	No. 2.				

H. J. DAGER, INSPECTOR.—*Concluded.*

			p. c.	p. c.			p. c.		
Labelled Highly Imp. Seidlitz Powders guaranteed full strength and ingredients pure.	154	157	24.4	74.2	35	35	99.40	57087	
Labelled Seidlitz Powders. Full weight.	148	154	24.8	73.2	39	42	99.85	57038	
.....	144	148	25.6	74.7	46	48	99.40	57039	
Labelled Seidlitz Powders. Full weight.	162	177	24.2	73.9	38	39	99.85	57040	

H. J. DAGER, ACTING INSPECTOR.

Labelled genuine full weight Seid. Powders.	113	137	28.1	71.7	40	43	99.40	57131	Carelessly weighed. Deficient weight.
Labelled genuine Seid. Powders.	130	137	25.6	74.4	41	43	99.75	57132	Deficient weight. Adulterated.
Labelled improved Seidlitz Powders. Warranted full weight.	163	170	25.4	73.9	33	35	99.75	57133	
Labelled genuine Seid. Powders.	128	153	25.4	73.6	37	40	99.75	57134	Carelessly weighed.
" " "	171	186	24.2	75.3	43	44	99.75	57135	
Labelled genuine aperient Seid. Powders.	146	181	22.3	77.5	33	40	99.40	57136	Carelessly weighed.
Labelled genuine full weight Seid. Powders.	120	140	29.2	71.8	52	56	99.75	57137	Carelessly weighed. Excess tartaric acid. Deficient weight. Adulterated.
Labelled genuine Seid. Powders, possessing all the medicinal properties of the Eff. Springs in Ger.	154	157	24.4	73.9	54	60	99.75	57138	Excess tartaric acid. Adulterated.
Labelled improved Seid. Powders.	123	147	24.8	74.7	45	49	99.60	57139	Carelessly weighed. Deficient weight. Adulterated.
" " "	118	119	26.5	72.9	47	50	99.40	57140	Excess tartaric acid. Deficient weight. Adulterated.

5 GEORGE V., A. 1915

BULLETIN No. 265—

Date of Collection,	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1913.							
Mar. 4	Seidlitz Powders.	47958	S. F. Park & Co., Chatham, Ont.	1 box.	25	Vendors.	
" 4	"	47959	J. G. Clark, Chatham, Ont.	1 " .	25	Vendor.	
" 4	"	47961	Powell, Davis Co, Chatham, Ont.	1 pkg.	25	Vendors.	
" 5	"	47964	W. A. Pond, Windsor, Ont.	1 " "	25	United Drug Co., Toronto.	
" 5	"	47967	F. H. Laing, Windsor, Ont.	1 " .	25	Vendor.	
" 5	"	47969	Gardner Pickard Drug Co., Windsor, Ont.	1 " .	25	Vendors.	
" 5	"	47973	A. J. Wilkinson, Windsor, Ont.	1 box.	25	Vendor.	
" 5	"	47976	H. O. Fleming, Windsor, Ont.	1 pkg.	25	"	
" 6	"	47977	S. H. Sadler, Essex, Ont.	1 " .	25	United Drug Co., Toronto.	
" 6	"	47985	Theo. B. S. Tweedale, Essex, Ont.	1 " .	30	Vendor.	

DISTRICT OF MANITOBA—

Feb. 25	Seidlitz Powders.	48826	P. F. Braund, Portage Ave., Winnipeg.	1 box.	25	The Martin Bole Wynn Co., Winnipeg.	Mfrs.
" 26	"	48827	Public Drug Co., Winnipeg.	1 " .	25	The Toronto Phar. Co., Toronto.	"
" 26	"	48828	The Gordon Mitchell Drug Co., Winnipeg.	1 " .	25	Unknown.	Unknown.
" 27	"	48829	Colcleugh & Co., Notre Dame & Sherbrooke, Winnipeg.	1 " .	25		
" 27	"	48830	D. W. Bradshaw, Notre Dame Ave., Winnipeg.	1 " .	25	Martin Bole Wynn Co., Winnipeg.	Mfrs.
Mar. 11	"	48831	Morden Pharmacy, Morden.	1 " .	25	Dr. Wilson Med. Co., Toronto.	
" 11	"	48831	W. Collins Co., Winnipeg.	1 " .	25	The Martin Bole Wynn Co., Winnipeg.	
" 13	"	48832	St. John Pharmacy, Winnipeg.	1 " .	25	Toronto Phar. Co., Ltd., Toronto.	
" 14	"	48833	W. G. Lang, Norwood Grove, P.O.	1 " .	25	The Martin Bole Wynn Co., Winnipeg.	
" 15	"	48834	Elmwood Drug Store, Elmwood, P.O., Winnipeg.	1 " .	25	Toronto Phar. Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an ex- pression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.				
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
	No. 1.	No. 2.			No. 1.	No. 2.			

JNO. TALBOT, INSPECTOR.

			p.c.	p.c.			p.c.		
.....	130	131	25.0	74.7	36	35	100.0	47958	Deficient weight. Adulterated.
.....	154	151	26.4	75.0	44	34	99.75	47959	Carelessly weighed.
.....	157	162	25.0	75.0	48	47	99.75	47961	
Rexall.....	158	158	28.6	71.3	40	40	99.75	47964	
.....	142	153	25.6	73.9	36	37	99.75	47967	
.....	120	124	29.4	70.2	43	47	100.0	47969	Deficient weight. Adulterated.
.....	151	139	25.8	74.2	35	45	99.75	47973	Carelessly weighed.
.....	177	168	26.4	73.4	56	53	99.75	47976	Excess tartaric acid. Adulterated.
Rexall.....	160	160	22.7	77.1	36	37	99.75	47977	
.....	216	218	25.2	75.8	42	39	99.75	47985	Excess weight. Adulterated.

A. C. LARIVIERE, INSPECTOR.

.....	126	138	33.8	65.2	33	37	99.50	48826	Abnormal. Deficient weight. Adulterated.
.....	150	154	25.2	73.4	34	35	99.75	48827	
Put up for the Gordon Mitchell Drug Co., Winnipeg.	172	175	25.4	73.2	42	43	99.90	48828	
.....	164	172	24.4	73.9	29	30	99.60	48829	
.....	124	143	34.6	64.1	33	37	99.75	48830	Carelessly weighed. Abnormal. Deficient weight. Adulterated.
.....	158	166	24.8	73.6	37	38	99.75	48831	
.....	106	115	31.1	67.0	34	36	99.75	48831 ^A	Abnormal. Deficient weight. Adulterated.
.....	165	166	25.4	73.2	44	44	99.75	48832	
Marwyn Seidlitz Powders.	117	127	36.1	62.4	34	37	99.60	48833	Abnormal. Deficient weight. Adulterated.
.....	159	159	25.6	73.2	38	38	99.75	48834	

5 GEORGE V., A. 1915
BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1913.							
Mar.	4	Seidlitz Powders.	49822 Rutherford Drug Co., Nelson, B.C.	1 doz.	40	Vendors.....	
"	4	"	49827 Canada Drug & Book Co., Nelson, B.C.	1 "	40	Toronto Phar. Co., Toronto.	
"	7	"	49848 Phoenix Drug Co., Phoenix, B.C.	1 "	50	H. K. Wampole, Perth, Ont.	
"	13	"	49852 J. Wylie, Hosmer, B.C.	2 box's	50	The Martin Bole & Wynn Co., Winnipeg.	
"	13	"	49853 " "	1 "	50		W. C. Wholesale Co., Fernie, B.C.
"	17	"	49863 C. R. Macdonald, Revelstoke, B.C.	1 doz.	40	Nat. Drug & Chem. Co., Montreal.	
"	17	"	49864 Walter Bews, Revelstoke, B.C.	1 "	40	Vendor.....	
April	7	"	49870 A. Reeves, Enderby, B.C.	1 "	40	H. K. Wampole, Perth, Ont.	
"	9	"	49876 E. T. Abbot, Armstrong, B.C.	1 box.	25	R. E. Berry, Vernon, B.C.	
"	26	"	49890 Thos. Stout, Rossland, B.C.	1 doz.	35	Toronto Phar. Co., Toronto.	

DISTRICT OF VANCOUVER—

Mar.	6	Seidlitz Powders.	53431 Leslie Henderson, Georgia & Granville Sts. Vanc., B.C.	1 pkge	25	Vendor.....	
"	6	"	53432 Burns & Cairns, Vancouver Block, Vancouver, B.C.	1 "	25	Nat. Drug Co., Vancouver.	
"	7	"	53433 Vancouver Drug Co., Richard & Hastings Sts., Vanc., B.C.	1 "	15	Manchester Drug Co., Toronto.	
"	7	"	53434 Brown & Dawson, 439 Hastings St., Vancouver, B.C.	1 "	25	Unknown.....	
"	7	"	53435 McDuffey Bros., 132 Cordova St., Vancouver, B.C.	1 "	25	J. A. Teespoorten, & Co., Vanc.	
"	7	"	53436 Owl Drug Store, Abbott & Cordova Sts., Vanc., B.C.	1 "	25	Vendors.....	
"	7	"	53437 Central Drug Stores, 16 Cordova St. west, Vanc., B.C.	1 "	25	"	
"	10	"	53438 W. E. Almas, Pender & Burrard Sts., Vanc., B.C.	1 "	25	Vendor.....	
"	10	"	53439 Manhattan Pharmacy, Robson & Thurton Sts., Vanc., B.C.	1 "	25	"	
"	10	"	53440 Harrison's Drug Store, Robson & Granville Sts., Vanc., B.C.	1 "	25	"	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an ex- pression of Opinion).	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.					
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.			
	No. 1.	No. 2.			No. 1.	No. 2.				

THOS. PARKER, INSPECTOR.

			p. c.	p. c.			p. c.		
.....	132	140	23.5	73.9	48	54	99.75	49822	Carelessly weighed; excess tar- taric acid. Deficient weight. Adulterated.
.....	165	167	25.2	73.6	29	31	99.90	49827	
.....	163	164	25.2	73.9	27	28	99.75	49848	
Marwyn	140	153	25.2	73.4	30	34	99.75	49852	
.....	167	168	25.2	73.6	38	39	99.40	49853	
.....	163	168	25.6	72.0	32	34	99.75	49863	
.....	158	159	24.6	74.4	39	44	99.60	49864	
.....	150	150	25.8	73.0	20	24	99.75	49870	Tartaric acid low. Adulterated.
.....	168	172	23.5	75.4	23	29	99.40	49876	" "
.....	161	164	25.6	72.6	26	28	99.80	49890	

J. F. POWER, INSPECTOR.

.....	162	163	26.2	73.6	37	38	99.60	53431	
.....	163	169	25.4	74.4	39	40	99.60	53432	
.....	169	176	25.2	72.9	40	42	99.75	53433	
.....	156	170	27.5	70.5	35	44	99.75	53434	Carelessly weighed.
.....	157	159	25.4	72.8	40	40	99.75	53435	
.....	119	175	27.3	72.5	40	41	99.75	53436	Carelessly weighed.
.....	151	167	25.0	72.9	36	38	99.75	53437	
.....	142	150	25.6	72.9	33	36	99.75	53438	
.....	194	197	26.2	71.0	49	60	99.80	53439	Carelessly weighed. Overweight. Adulterated.
.....	154	159	27.1	71.3	38	41	99.75	53440	

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BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1913.							
Mar. 10	Seidlitz Powders.	53519	F. J. Williams, 613 Fort St., Victoria, B.C.	1 pkge	25	H. K. Wampole, Perth, Ont.	.....
" 10	"	53521	D. E. Campbell, 650 Fort St., Victoria, B.C.	1 doz.	50	Vendor.....	.....
" 10	"	53523	Terry's Drug Store, 705 Fort St., Victoria, B.C.	1 " ..	35	Toronto Phar. Co., Toronto.	.....
" 10	"	53525	Geo. A. Fraser & Co., 912-914 Govt., St., Victoria, B.C.	1 " ..	50	Vendors.....	.....
" 10	"	53527	Cyrus H. Bowes, 228 Govt. St., Victoria, B.C.	1 " ..	50	Vendor.....	.....
" 10	"	53529	Ivels Pharmacy, 1415 Govt. St., Victoria, B.C.	1 " ..	40	" .....	.....
" 11	"	53531	Dean & Hiscocks, 627 Yates St., Victoria, B.C.	1 " ..	35	H. K. Wampole, Perth, Ont.	.....
" 11	"	53533	John Cochrane, 1300 Douglas St., Victoria, B.C.	1 " ..	50	Vendor .....	.....
" 11	"	53535	W. Jackson & Co., Victoria, B.C.	1 " ..	50	Vendors.....	.....
" 11	"	53537	Hall & Co., 702 Yates St., Victoria, B.C.	1 " ..	50	Nat. Drug & Chem. Co., Victoria, B.C.	.....

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an ex- pression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Tartrate Powder.				Acid Powder.				
	Weight of Powders in grains.		Bicarbo- nate of Soda.	Rochelle Salt.	Weight of Powders in grains.				Tartaric Acid.
	No. 1.	No. 2.			No. 1.	No. 2.			

D. O'SULLIVAN, INSPECTOR.

			p.c.	p.c.			p.c.		
.....	147	152	27.1	71.5	42	44	99.60	53519	
.....	160	161	25.4	73.9	40	41	99.75	53521	
.....	165	167	19.5	79.0	26	29	99.60	53523	Abnormal. Adulterated.
.....	154	162	29.0	68.9	40	42	99.75	53525	
.....	156	156	26.0	73.6	31	33	99.75	53527	
.....	156	162	26.5	73.4	41	44	99.00	53529	
.....	153	171	25.6	73.4	37	41	99.40	53531	Carelessly weighed.
.....	204	216	25.6	73.4	39	44	99.75	53533	Excess weight. Adulterated.
.....	152	159	24.8	73.4	42	47	99.75	53535	
.....	151	162	24.4	73.4	36	37	99.75	53537	

APPENDIX I.

BULLETIN No. 266—LINSEED OIL.

OTTAWA, September 6, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you herewith a report dealing with Linseed Oil. This report gives you, in synoptical form, the analytical results obtained with, and other information concerning, fifty-three samples (53) purchased by our inspectors during December of last year and January of the present year.

Linseed Oil comes within the scope of the Adulteration Act both as a drug and as a paint material, being included, in admixture with white lead, in Schedule 4 of the Act.

Regarded as a drug, it is described by the British Pharmacopoeia as follows:—(Ed. 1898).

"The oil expressed from Linseed at ordinary temperature. Characters: viscid, yellow, with a faint but distinct odour and bland taste. Specific gravity, 0.930 to 0.940. It is soluble in 10 parts of alcohol (90 per cent) and in oil of turpentine. It gradually thickens by exposure to the air, forming, when spread in a thin layer on glass, a hard, transparent varnish. It does not congeal above 4 deg. Fahr. (—20 deg. C.),"

This description applies to the article known as Raw Oil.

The chief commercial value of Linseed Oil derives from its use as a paint and varnish material. The oil rapidly absorbs atmospheric oxygen, with formation of a tough, resinous mass, and is the best known example of a so-called "drying" oil. The readiness with which it takes up oxygen is increased by heating to 180 deg C., and especially by heating in presence of certain metallic oxides or salts. When it has undergone this treatment it is known as "Boiled" Oil.

Owing to the fact that commercial Linseed is never pure, it follows that the oil expressed from such seed varies in character, within limits, depending upon the nature and amount of foreign seeds in admixture. The following extremes are quoted from Allen's Commercial Organic Analysis, 4th Ed., Vol. II, p. 70:—

Specific gravity at 15.5 deg. C.	0.9315 to 0.9410
Solidification point.	—16 deg. to—27 C.
Melting point of fatty acids.	17 " to 24 C.
Saponification value.	190 " to 201
Reichert Meissl value.	0
Hehner value.	95 to 95.5
Iodine value.	175 to 201

Linseed oil, both raw and boiled, is frequently adulterated by addition of hydrocarbons, rosin oil and fish oils. Cotton seed oil has sometimes been employed as an adulterant, and soya bean oil is suspected.

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Owing to the great variety and diverse character of available adulterants for linseed oil, and to the inevitable variability of the article even when commercially genuine, the detection of adulteration in linseed oil is far from being a simple matter. Large buyers of linseed oil would do well to furnish specifications of the article they demand, or purchase by sample. The American Society for Testing Materials fixed the following specifications for the year 1910 (*Oil and Colour Journal*, 1909, 36):—

Raw Linseed Oil.	Max.	Min.
Specific gravity at 15 Deg.	0.836	0.932
" " at 25 "	0.931	0.927
Acid number.	6.000	.....
Saponification value.	192	189
Unaponifiable matter.	1.5	.....
Refractive Index at 25 Deg.	1.4805	1.4790
Hanns Iodine value.	190	178

The accompanying tables will furnish information regarding Linseed Oil as found in Canadian markets. Since most of these samples were supplied as for use in the arts, and not as drugs, it would not be just to apply to them, in strictness, the Standard of the British Pharmacopœia. As judged upon the whole results of analysis, I have been able to classify them as follows:—

Apparently genuine.	36 samples.
Of doubtful genuineness.	10 "
Adulterated.	7 "
Total.	53 "

The chief adulteration found consists in addition of mineral oil, which undoubtedly forms the main adulterant on this continent.

This is the first occasion upon which a systematic examination of Linseed Oil has been made under the Adulteration Act, and the principal value of this report consists in its bringing to notice the fact that adulteration of linseed oil is not unknown in Canada. There can be no doubt that the most effective way to prevent adulterated linseed oil coming into our country would be the adoption of the plan which I have already recommended, namely, the purchase of the article to carefully prepared specification.

I beg to recommend the publication of this report as Bulletin No. 266.

I have the honour to be, Sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 266—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.							
Jan. 16	Linseed Oil.	46651	Wm. Stairs Son & Morrow, Halifax, N.S.	1 qt.	25	Canadian Linseed Oil Co., Toronto.	Mfrs.
" 16	"	46652	Crowell Bros., Halifax, N.S.	1 "	25	"	"
" 16	"	46653	A. M. Bell & Co., Halifax, N.S.	1 "	30	Unknown	Unknown
" 14	"	46654	Nat. Drug Co., Halifax, N.S.	1 "	45	Dominion Linseed Oil Co., Toronto.	Mfrs.
" 16	"	46655	Wm. Stairs Son & Morrow, Halifax, N.S.	1 "	23	Canadian Linseed Oil Co., Toronto.	"
" 24	"	46656	Jas. Simmond Co., Dartmouth, N.S.	1 "	25	"	"

DISTRICT OF QUEBEC—

1912.							
Dec. 19	Linseed Oil.	37292	H. Young, 111 Rue du Pont, Quebec.	3 pints	43	Canadian Seed Oil Co.	Mfr.
" 20	"	37293	E. Martineau, 135 Rue St. Joseph, Quebec.	1 "	45	Irving Williams B.	"
" 20	"	37294	C. A. Parent, 106 Rue St. Joseph, Quebec.	1 "	50	Canadian Seed Oil Co.	"
" 19	"	37295	N. Young, 111 Rue du Pont, Quebec.	1 "	43	"	"
" 20	"	37296	E. Martineau, 135 Rue St. Joseph, Quebec.	1 "	45	Irving Williams B.	"
" 21	"	37297	C. A. Parent, 106 Rue St. Joseph, Quebec.	1 "	50	Canadian Seed Oil.	"

DISTRICT OF EASTERN QUEBEC—

Dec. 24	Linseed Oil.	53303	Talbot Ltd., Rimouski, P.Q.	1 pt.	17	Oil, Montreal...	...
" 24	Oil.....	53304	"	1 "	17	"	...
" 26	Linseed Oil.	53309	T. Pelletier, Fraserville, P.Q.	1 "	15	Livingston Linseed Oil, Montreal.	...
" 27	"	53312	Union Agricole, St. Pascal, P.Q.	1 "	20	Sherwin-Williams, Co.,	...
" 27	Oil.....	53313	"	1 "	20	"	...

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LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15.5°C.	Saponification Number.	Maumene.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70°C.		

R. J. WAUGH, INSPECTOR.

Boiled	0.935	198.9	117.5	Linseed .....	.....	20 hours....	46651	
"	0.935	191	112	Slight indication of mineral & other oils.	2.04	15 "	46652	Doubtful.
"	0.941	199.5	111	Indicates adulteration.	1.65	36 "	46653	"
Raw	0.934	196	116	Linseed .....	.....	48 "	46654	
"	0.932	198	112	" .....	.....	48 "	46655	
"	0.932	197.8	111	" .....	.....	48 "	46656	

F. X. W. E. BELAND, INSPECTOR.

Boiled	0.935	196	105	Linseed .....	.....	24 hours....	37292	
"	0.937	190	118	" .....	.....	2.70 12 "	37293	
"	0.938	198.7	106	" .....	.....	20 "	37294	
Raw	0.931	154.5	108	Indication of mineral oil.	19.76	36 "	37295	Adulterated.
"	0.935	194.6	120	Linseed .....	.....	36 "	37276	
"	0.933	193.2	108	" .....	.....	36 "	37297	

A. PELLETIER, INSPECTOR.

Raw	0.934	196	114	Linseed .....	.....	36 hours....	53303	
Boiled	0.934	186.3	120	Mineral	5.00	30 "	53304	Doubtful.
"	0.935	176.8	128	Indication foreign oils.	5.12	15 "	533.9	"
Raw	0.942	189	119	Linseed .....	.....	20 "	53312	
Boiled	0.932	196.5	114	" .....	.....	48 "	53313	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1913.							
Jan. 29	Linseed Oil.	51166	W. C. Webster & Sons, Coaticook.	1 qt..	25	.....	.....
" 30	"	51167	E. Boucher, St. Hyacinthe....	1 " ..	25	.....	.....
" 30	"	51168	S. Bourgeois Co., Incorporated St. Hyacinthe.	1 " ..	20	.....	.....
" 29	"	51169	W. C. Webster & Sons, Coaticook.	1 " ..	25	.....	.....
" 30	"	51170	E. Boucher, St. Hyacinthe....	1 " ..	25	.....	.....
" 30	"	51171	Beaunoyer & Lalime, St. Hyacinthe.	1 " ..	30	.....	.....

DISTRICT OF MONTREAL—

Jan. 8	Linseed Oil.	51082	H. Sylvester & fils, 1111 St. Lawrence Boulevard, Montreal.	3 pts.	45	Mount Royal Colour & Varnish Co., Ltd.	.....
" 8	"	51083	The People's Hardware Co., 152 St. Lawrence Boulevard Montreal.	3 " ..	45	.....	.....
" 8	"	51084	Beaunoyer & Brouillet, 1387 St. Lawrence Boulevard, Montreal.	3 " ..	45	Mount Royal Colour & Varnish Co., Ltd.	.....
" 8	"	51085	St. Lawrence Hardware Co., 993 St. Lawrence Boulevard Montreal.	3 " ..	36	A. Ramsay Son & Co.	.....
" 8	"	51086	The People's Hardware Co., 152 St. Lawrence Boulevard Montreal.	3 " ..	45	.....	.....
" 10	"	51087	A. Goyette, 124 Mount Royal Ave., Montreal.	3 " ..	45	.....	.....

DISTRICT OF OTTAWA—

1912.							
Dec. 27	Linseed Oil.	51677	Hull Medical Hall, Hull, P.Q.	24 oz..	40	.....	Imperial Oil Co. Ottawa.
" 30	"	51678	D. J. Stalker, Ottawa.....	3 bots	75	Imperial Oil Co., Ottawa.	Mfrs.
" 31	"	51679	Mulhall Hardware Co., Ottawa.	24 oz.	16	Dom. Linseed Oil Co., Montreal.	"
" 27	"	51680	Adam Scott, Almonte.....	1 qt..	25	Sherwin Williams Co. Montreal.	.....
" 30	"	51681	Cuzner Hardware Co., Ltd., Ottawa.	1 " ..	25	Standard Linseed Oil Co., Cleveland, U.S.
" 31	"	51682	Mulhall Hardware Co., Ottawa.	24 oz..	16	Dom. Linseed Oil Co., Montreal.

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LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15° C.	Saponification Number.	Maumene.	Spot Test.	Unaponifiable Matter.	Time of Drying at 70° C.		
J. J. COSTIGAN, ACTING INSPECTOR.								
Boiled	0·934	195·0	106	Linseed ?	30 hours.....	51166		
"	0·932	176·4	108	Mineral and other oils.	8 10 24 "	51167	Adulterated.	
"	0·934	197·2	109	Linseed	30 "	51168		
Raw	0·934	196·0	116	"	36 "	51169		
"	0·937	194·6	122	"	48 "	51170		
"	0·933	194·3	114	"	36 "	51171		

J. J. COSTIGAN, INSPECTOR.

Raw.....	0·935	196·5	116	Linseed	.....	36 hours.....	51082	
"	0·935	193·2	110	"	.....	48 "	51083	
Boiled.....	0·909	150·0	94	Mineral	.....	24 "	51084	Adulterated.
"	0·934	191·5	122	Linseed	.....	36 "	51085	
"	0·936	185·0	96	Indication of Foreign Oils	5·40 24	"	51086	Doubtful.
"	0·936	196·2	112	Linseed	.....	48 "	51087	

J. A. RICKEY, INSPECTOR.

Raw.....	0·934	194·3	112	Linseed	.....	40 hours.....	51677	
"	0·935	194·8	120	"	.....	36 "	51678	
"	0·933	190·0	116	"	.....	36 "	51679	
Boiled.....	0·938	189·3	103	"	1·79 24 "	51680	
"	0·941	162·0	99	Mineral	15·30 24 "	51681	Adulterated.
"	Broken.....	51682	

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BULLETIN No. 266—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1912.							
Dec. 16	Linseed Oil.	53036	W. A. Mitchell, Kingston...	3 pts.	45	.....	Dalton & Son, Kingston.
" 16	"	53037	A. Chown & Co., Kingston...	3 "	23	Livingston, Montreal.	.....
" 16	"	53038	J. B. Bunt & Co., Kingston...	3 "	45	Southern States Turpentine Co., Cleveland.	.....
" 16	"	53039	W. A. Mitchell, Kingston...	3 "	45	.....	Dalton & Son, Kingston.
" 16	"	53040	A. Chown & Co., Kingston...	3 "	24	Sherwin, Montreal.	.....
" 16	"	53041	J. B. Bunt & Co., Kingston...	3 "	45	Livingston, Montreal.	.....

DISTRICT OF TORONTO—

Dec. 19	Linseed Oil.	49496	P. H. Finkle, 1520 Queen St. west, Toronto.	3 pts.	40	.....	Sanderson Percy Co., Ltd., Toronto.
" 27	Oil.....	49497	Howard Furnace Hardware Co., 371 Yonge St., Toronto.	1 qt.	35	.....	Reynolds Bros., Toronto.
" 27	"	49498	Geo. Pearsall & Son, 417 Yonge St., Toronto.	1 "	35	.....	The Sherwin-Williams Co., Toronto.
" 24	"	51581	Geo. Matthewson, 734 Queen St. east, Toronto.	1 "	25	.....	Turpentine Producing Agency, Toronto.
" 26	"	51582	May Bros., 1680 Dundas St. west, Toronto.	1½ pt.	45	.....	"
" 27	"	51583	T. W. Brown, 242 Carleton St., Toronto.	1 qt.	50	.....	"

DISTRICT OF VICTORIA—

1913.							
Jan. 21	Linseed Oil.	53513	E. B. Marion & Co., 1202 Wharf St., Victoria, B.C.	3 pts.	.....	Sherwin-Williams, Montreal.	.....
" 21	"	53514	P. McQuade & Son, 1214 Wharf St., Victoria, B.C.	3 "	65	J. T. Donald & Co., Glasgow.	.....
" 21	"	53515	B.C. Hardware Co., Ltd., 825 Fort St., Victoria.	3 "	40	.....	B. A. Paint Co., Victoria, B.C.
" 21	"	53516	E. B. Marvin & Co., 1202 Wharf St., Victoria.	3 "	.....	Sherwin-Williams, Montreal.	.....
" 21	"	53517	P. McQuade & Son, 1214 Wharf St., Victoria.	3 "	60	J. T. Donald & Co., Glasgow.	.....
" 21	"	53518	B.C. Hardware Co., Ltd., 825 Fort St., Victoria.	3 "	35	B. A. Paint Co., Victoria, B.C.

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LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15.5° C.	Saponification Number.	Maumene.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70° C.		

JAS. HOGAN, INSPECTOR.

Raw.....	0.934	197.1	112	Linseed		48 hours....	53036	
"	0.934	195.6	110	"		36 "	53037	
"	0.932	159	106	Indication rosin oil.	19.50	48 "	53038	Adulterated.
"	0.934	189	118	Indicates adulteration.	8.34	20 "	53039	"
"	0.937	189.7	119	Linseed	2.66	15 "	53040	
"	0.934	194	115	"		15 "	53041	

H. J. DAGER, INSPECTOR.

Raw	0.931	194.6	120	Linseed		48 hours....	49496	
"	0.925	149	91	Indication mineral oil.		36 "	49497	Doubtful.
"	0.932	194.9	110	Linseed		48 "	49498	
Boiled	0.933	157.8	101	Mineral		24 "	51581	Doubtful.
"	0.924	156	103	"		36 "	51582	Adulterated.
"	0.930	147.7	90	"		24 "	51583	Doubtful.

D. O'SULLIVAN, INSPECTOR.

Raw.....	0.933	194	115	Linseed		36 hours....	53513	
"	0.931	194.3	129	"		48 "	53514	
"	0.930	194.3	128	"		48 "	53515	
Boiled	0.933	189.9	124	"		24 "	53516	
"	0.946	189.3	112	Indication mineral oil.	5.00	30 "	53517	Doubtful.
"	0.936	195.6	117	Mineral and other oils.	1.94	20 "	53518	"

APPENDIX J.

BULLETIN No. 267—MEAT EXTRACTS.

OTTAWA, Sept. 10, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report of eighty (80) samples purchased throughout Canada, as Meat Extracts, in February and March of last year. The necessity of taking in hand the analysis of articles which could be less readily preserved, or whose examination was more pressingly demanded, caused this collection to be held over for the long period of eighteen months. While it is believed that the nature of the article, the care observed in its packing, and in its preservation while in our possession, have prevented any important deterioration, it is but right to say that the analytical results now furnished you must be regarded rather as a study of the subject of Meat Extracts, than as a legal inspection of the article as found on the market.

Our last published work on Meat (Beef) Extracts was issued in April, 1899, as Bulletin No. 63, and was as complete a presentation of the subject as was, at that time, possible. Since the date named a great deal of investigatory work has been put on record both by The United States of America (Bureau of Chemistry) and by European laboratories. The Meat Extracts of Commerce, so far as these possess real value, are found to be characterized in such a way as to make it possible to establish standards of value, below which an Extract cannot be recognized as genuine. An Order-in-Council dated 24th October, 1910, and passed conformably to Sec. 26 of the Adulteration Act, defines Meat Extracts, and allied products, as below:—

C.—MEAT EXTRACTS, MEAT PEPTONES, GELATIN, ETC.

1. Meat extract is the product obtained by extracting fresh meat with water and concentrating the liquid portion by evaporation after the removal of fat, and contains not less than seventy-five (75) per cent of total solids of which not over twenty-seven (27) per cent is ash, and not over twelve (12) per cent is sodium chloride (calculated from the total chlorine present), not over six-tenths (0.6) per cent is fat and not less than eight (8) per cent is nitrogen. The nitrogenous compounds contain not less than forty (40) per cent of meat bases and not less than ten (10) per cent of kreatin and kreatinin.

2. Fluid meat extract is identical with meat extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

3. Bone extract or stock is the product obtained by extracting clean, fresh, trimmed bones, of animals in good health at the time of slaughter, with boiling water and concentrating the liquid portion by evaporation, after removal of the fat, and contains not less than seventy-five (75) per cent of total solids.

4. Fluid bone extract is identical with bone extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

5. Meat juice is the fluid portion of muscle fibre, obtained by pressure or otherwise, and may be concentrated by evaporation at a temperature below the coagulating point of the soluble proteids. The solids contain not more than fifteen (15) per cent of ash, not more than two and five-tenths (2.5) per cent of sodium chloride (calculated from the total chlorine present,) not more than four (4) nor less than two (2) per cent of phosphoric acid (P_2O_5), and not less than twelve (12) per cent of nitrogen. The nitrogenous bodies contain not less than thirty-five (35) per cent of coagulable proteids and not more than forty (40) per cent of meat bases.

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6. Peptones are products prepared by the digestion of proteid material by means of enzymes or otherwise, and contain not less than ninety (90) per cent of proteoses and peptones.

It will be seen that Meat Extract is found in the market either as a solid mass, usually in cubes; as what may be called the normal Extract containing about 75 per cent of solids; or as a fluid Meat Extract, with solids below 75 per cent. Our Standards require a minimum of 50 per cent. Of the present collection we find:—

Solid Meat Extracts.	12
Normal " "	25
Fluid " "	42
Meat Juice.	1
	—
	80

The ash, representing mineral matters of the meat and added common salt, should not exceed 27 per cent of the total solids; and the salt (sodium chloride) should not exceed 12 per cent.

In all the solid Extracts, the ash and salt exceed the limit named by Our Standards for Meat Extract. Perhaps these Standards should not be held to apply to Meat Extract in the solid form. This is a point for further consideration.

Fat is required to be less than six-tenths of one per cent (0.6) of the total solids. The Petrolie Ether Extract shown in the table, is essentially fat, and is decidedly excessive in 17 samples. With few exceptions these are solid Extracts, and it is possible that the limit for fat may have to be reconsidered in the case of this kind of Extract.

The most important datum is the content of nitrogen. Nitrogen is required to constitute at least 8 per cent of the total solid matter of the extract. This requirement is met by all but four of the samples reported. Two of these are not sold as Meat Extracts (46159, 50139), but as Concentrates of Meat and Vegetables. No. 47014 is slightly lower than Standard requirements, and 39056 is distinctly below the Standard. Nitrogen is present in various combinations, the characteristic, and practically the only ones giving value to these meat extracts being the group known as 'Meat Bases.' These are required to amount to at least 40 per cent of the total nitrogenous compounds.

Many of the samples which meet requirements as to total nitrogen fall short of the Standard for Meat Extracts in this respect. This is due to the fact that proteid nitrogen, in form of pulverized beef, has been incorporated, as shown by the large percentage of nitrogen in insoluble compounds. While the true Meat Extracts show less than one-half of one per cent. of nitrogen in insoluble forms, the samples in question give from one to two per cent. of insoluble nitrogen.

The Kreatin and Kreatinin should amount to at least one-fourth of the total meat bases. The minimum limit is greatly exceeded in the genuine Extracts; but is not reached in those of low grade. In order that this fact may be better shown, I have arranged in subsidiary tables the samples herein reported, placing together those representing the same brand. It will be noted that most of these brands are manufactured with intelligence and care, as shown by their mean composition and by the uniformity obtaining among the samples analysed. The notes accompanying subsidiary tables make it unnecessary to say anything more than that this work will be of use to us in further investigation of the subject; and I beg to recommend its publication as Bulletin No. 267.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,
Chief Analyst.

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SUBSIDIARY TABLES.

ARMOUR'S EXTRACT.

Number of Sample.	Nitrogen as											
	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat base).	Kreatinin.	Kreatin.	
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
40834...	21.75	78.25	0.75	19.76	5.19	8.764	0.273	4.557	3.934	0.78	0.48	
45617...	21.65	78.35	1.00	19.40	4.49	8.764	0.322	4.536	3.906	0.81	0.42	
46160...	22.40	77.60	1.00	19.20	4.91	8.540	0.189	4.389	3.962	0.70	0.60	
47895...	23.30	76.70	0.65	20.50	5.11	8.792	0.202	4.726	3.864	0.67	0.53	
48100...	23.90	76.10	1.00	19.30	5.23	8.764	0.266	4.886	3.612	0.62	0.61	
49111...	21.35	78.35	0.75	19.80	5.19	8.204	0.315	4.501	3.388	0.60	0.74	
49267...	22.25	77.75	0.90	20.55	5.58	8.484	0.364	4.480	3.640	0.65	0.55	
49538...	24.30	75.70	1.10	19.00	4.93	8.456	0.231	4.725	3.500	0.73	0.71	
49536...	21.50	78.50	1.05	19.30	5.72	8.428	0.203	4.585	3.640	0.65	0.68	
50136...	21.00	79.00	0.85	19.40	5.28	8.596	0.308	4.480	3.808	0.57	0.62	
38313...	23.50	76.50	1.05	20.30	5.32	8.260	0.399	4.194	3.667	0.63	0.60	
Mean..	22.44	77.56	0.92	19.68	5.17	8.541	0.279	4.542	3.720	0.67	0.59	

Sold as (normal) meat Extract. Fat is very slightly in excess of standard. Other-wise requirements of standards are fully met.

BEEFENE.

Number of Sample.	Water.	Solids.	Petrole Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat base.)		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
39052	45.90	54.10	1.00	14.10	8.12	5.488	1.764	2.384	1.340	0.45	0.13
38312	45.25	54.75	1.35	14.62	8.39	5.684	1.361	3.021	1.302	0.53	0.10
Mean	45.57	54.43	1.17	14.36	8.25	5.586	1.562	2.703	1.321	0.49	0.12

A Fluid Meat Extract. Fat slightly in excess, also salt. Meat base nitrogen somewhat low.

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BOVIN CUBES.

Number of Sample.	Water	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
50139. . .	7.00	93.00	2.60	43.70	19.63	3.324	0.105	1.469	1.750	0.21	0.18

A solid meat Extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen is below standard for normal meat extract; meat base nitrogen is proportionately up to requirement. Vegetable matter is acknowledged to be present.

BOVRIL EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
47013 . . .	45.52	54.48	0.55	14.98	8.60	5.432	1.015	2.401	2.016	0.54	0.26
48079 . . .	45.25	54.75	0.75	14.18	9.00	5.460	1.029	2.457	1.974	0.61	0.14
49357 . . .	45.15	54.85	0.95	14.63	8.44	5.208	1.085	2.289	1.834	0.54	0.30
49359 . . .	41.05	58.95	1.05	15.15	9.10	5.404	1.037	2.401	1.946	0.54	0.36
47892 . . .	45.45	54.55	0.90	15.45	9.30	5.544	1.032	2.492	1.960	0.53	0.27
38311 . . .	43.15	56.85	0.60	14.40	8.34	5.152	1.001	1.897	2.254	0.60	0.23
45619 . . .	44.23	55.77	0.55	14.90	8.61	5.152	1.078	2.072	2.002	0.56	0.39
50138 . . .	43.10	56.90	0.65	15.33	9.11	5.376	1.106	2.212	2.058	0.64	0.23
40831 . . .	41.24	58.76	0.95	14.35	8.83	5.348	1.155	2.193	2.000	0.62	0.14
49537 . . .	45.15	54.85	1.05	14.90	8.35	5.040	1.085	2.135	1.820	0.67	0.38
49539 . . .	41.90	58.10	0.75	14.48	8.90	5.040	1.099	2.009	1.932	0.64	0.30
49540 . . .	44.95	55.05	1.00	15.20	8.88	5.572	1.057	2.639	1.876	0.57	0.26
44137 . . .	44.75	55.25	1.00	14.99	8.39	5.628	1.036	2.632	1.960	0.62	0.27
48601 . . .	40.25	59.75	0.75	14.36	8.71	5.124	1.008	2.156	1.960	0.57	0.49
39053 . . .	40.75	59.25	0.65	15.23	8.63	5.208	0.994	2.310	1.904	0.73	0.16
49113 . . .	43.00	57.00	0.80	15.67	9.15	5.656	1.085	2.550	2.021	0.64	0.24
49615 . . .	44.70	55.30	0.85	15.30	8.90	5.628	1.090	2.498	2.040	0.76	0.28
Mean . . .	43.51	56.49	0.75	14.91	8.77	5.351	1.063	2.331	1.957	0.61	0.30

A Fluid Meat Extract. Salt slightly high. Meat base nitrogen slightly low

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BRANDS ESSENCE.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex- tract.	Ash.	Sodium Chloride.	Nitrogen as				Creatinin.	Creatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Fil- trate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
38310 . .	90.30	9.70	0.90	1.40	0.98	1.652	0.044	0.343	1.265	Trace	Trace.

Sold as Essence of Beef or Meat Juice, and meets requirements of Standard.

DAVIES EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex- tract.	Ash.	Sodium Chloride.	Nitrogen as				Creatinin.	Creatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Fil- trate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
49358 . .	20.80	79.20	0.25	15.12	8.32	9.184	0.196	5.088	4.900	1.30	0.80

Judged as normal Beef Extract. Fully meets standard requirements.

GILMOUR EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex- tract.	Ash.	Sodium Chloride.	Nitrogen as				Creatinin.	Creatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Fil- trate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
9056 . .	40.75	59.25	1.50	22.60	6.70	2.968	0.378	2.666	0.924	0.33	0.14

A Fluid Beef Extract. Ash slightly high; also fat. Total nitrogen and meat base nitrogen very low.

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IVELCON--CUBES.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).	Kreatinin.		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
46159.	9.25	90.75	4.45	53.65	23.93	2.996	0.133	0.973	1.890	0.33	0.11	

A Solid Meat Extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen is below standard for normal meat extract; meat base nitrogen is proportionately up to requirement. The presence of vegetables is acknowledged.

LEMCO.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).	Kreatinin.		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
46156.	24.80	75.20	0.55	18.00	3.05	10.640	0.364	5.264	5.012	0.70	1.50	
48603.	24.50	75.50	0.85	18.50	3.68	9.884	0.402	4.610	4.872	0.72	1.27	
47012.	24.40	75.60	0.50	18.20	3.07	10.388	0.434	5.096	4.858	0.72	1.47	
57375.	24.20	75.80	0.35	18.70	2.74	10.360	0.392	4.942	5.026	0.75	1.76	
Mean.	24.48	75.52	0.56	18.35	2.88	10.318	0.398	4.978	4.942	0.72	1.50	

Sold as (normal) Beef Extract. Fully meets requirements of the standards.

NA-DRU. CO.—EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).	Kreatinin.		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
45620.	24.20	75.80	0.50	22.40	13.69	7.000	0.125	4.453	2.422	0.18	0.15	
47884.	24.15	75.85	0.75	21.50	13.70	6.692	0.441	3.461	2.590	0.17	0.05	
48098.	24.05	75.95	1.20	22.01	13.88	6.524	0.326	3.622	2.576	0.20	0.00	
48188.	25.90	74.10	0.40	22.75	14.09	7.224	0.658	4.466	2.100	0.13	0.15	
Mean.	24.57	75.43	0.66	22.26	13.90	6.860	0.387	4.050	2.423	0.17	0.09	

Sold as (normal) Beef Extract. Salt slightly in excess and nearly meets requirements in total and meat base nitrogen. The Kreatin and Kreatinin are, however, distinctly deficient in amount.

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NUTRI-OX EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
38314 ...	45·35	55·65	2·35	16·30	9·69	4·340	0·546	1·302	2·492	0·50	0·22

A Fluid Beef Extract. Fat and salt are somewhat high. Otherwise meets the standards.

OXO-CURES.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
47015 ...	11·15	88·85	3·35	34·90	26·50	7·280	1·628	3·328	2·324	0·53	0·55
49361 ...	11·10	88·90	2·90	35·05	25·77	7·868	1·778	3·514	2·576	0·57	0·38
49087 ...	10·45	89·55	3·45	35·05	24·43	7·616	1·610	3·346	2·660	0·70	0·38
50137 ...	11·95	88·05	3·55	34·80	24·88	7·924	1·624	3·794	2·506	0·62	0·32
47011 ...	11·00	89·00	3·00	34·55	25·07	7·672	1·631	3·437	2·604	0·67	0·38
45616 ...	10·10	88·90	3·25	33·50	25·27	7·476	1·603	3·283	2·590	0·59	0·56
46158 ...	10·65	89·35	3·70	34·05	24·87	7·672	1·582	3·486	2·604	0·67	0·45
48602 ...	12·05	87·95	3·85	35·20	24·74	7·476	1·582	3·612	2·282	0·70	0·44
48202 ...	10·75	89·25	3·50	35·05	25·62	7·420	1·589	3·311	2·520	0·70	0·34
Mean ...	11·02	88·98	3·39	34·68	25·24	7·600	1·625	3·456	2·519	0·63	0·42

A solid meat extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen meets standard requirements. Meat base nitrogen is relatively low.

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OXO FLUID BEEF.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).			
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
44138 . . .	34.75	65.25	1.10	19.90	9.78	6.160	0.812	3.066	2.282	0.76	0.18	
47886 . . .	34.10	65.90	1.15	19.39	9.33	5.852	0.840	2.534	2.478	0.54	0.26	
40833 . . .	35.00	65.00	1.25	19.21	9.19	6.048	0.840	2.828	2.380	0.64	0.23	
49114 . . .	34.10	65.90	1.00	19.63	9.45	5.740	0.840	2.548	2.352	0.62	0.30	
44136 . . .	34.70	65.30	1.30	19.30	9.28	5.954	0.904	2.478	2.492	0.50	0.44	
49360 . . .	34.90	65.10	1.30	19.65	9.65	6.244	1.000	2.752	2.492	0.50	0.46	
47864 . . .	33.30	66.70	1.15	20.20	9.82	5.992	0.728	2.772	2.492	0.62	0.32	
Mean . . .	34.40	65.60	1.17	19.62	9.50	6.000	0.865	2.711	2.424	0.63	0.31	

A Fluid Meat Extract. Fat, ash and salt are slightly too high. Otherwise meets standard requirements.

PORTRAIT BRAND EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).			
	p.c.	p.c.	p.c.	p.c.	p.c.	p c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
40835 . . .	19.55	80.45	0.95	28.30	12.20	8.960	0.252	3.598	5.116	2.32	0.76	

Sold as (normal) Meat Extract. Slight excess of ash; otherwise meets all requirements.

RAMONIE.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).			
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
37373. . .	17.33	82.67	0.70	22.80	4.37	8.962	0.261	3.925	4.774	2.32	1.16	
37374. . .	17.70	82.30	0.90	23.15	5.05	8.840	0.350	3.632	4.858	2.32	0.70	
37376. . .	17.05	82.95	0.55	23.25	4.52	8.960	0.335	3.641	4.984	2.12	1.47	
37377. . .	17.85	82.15	0.85	22.75	5.21	9.268	0.364	4.116	4.788	0.62	2.15	
Mean.	17.48	82.52	0.75	22.98	4.79	9.007	0.327	3.829	4.851	1.84	1.17	

Sold as (normal) Beef Extract. Meets requirements of the standard.

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RED CROSS EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).	Kreatinin.	Kreatin.
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
39054. . .	37.70	62.30	1.15	18.19	7.62	7.280	2.128	3.890	1.260	0.10	0.04
40832. . .	42.00	58.00	1.25	17.83	7.89	5.292	1.565	2.437	1.330	0.40	0.32
39055. . .	55.60	44.40	1.15	19.00	8.13	4.592	1.652	2.173	0.767	0.13	0.07
.....

NOTE.—Three different grades.

Fluid Meat Extracts, sold as different grades. In all the fat and ash are slightly too high; and meat base nitrogen too low. Kreatin and Kreatinin are low, except in No. 40832.

VIGORAL EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as					
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).	Kreatinin.	Kreatin.
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
48605 . . .	50.70	49.30	0.35	14.60	8.20	4.032	0.350	1.288	2.394	0.60	0.20
49112 . . .	50.85	49.20	0.25	15.23	8.60	3.808	0.448	1.330	2.030	0.58	0.21
49631 . . .	52.20	47.80	0.30	15.40	8.32	3.752	0.175	1.673	1.904	0.36	0.16
Mean.	51.23	48.77	0.30	15.07	8.37	3.864	0.324	1.431	2.109	0.51	0.19

A Fluid Meat Extract. Total solids slightly below standard; ash and salt slightly high. Otherwise practically meets requirements.

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VIMBOS—CUBES.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat Base).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
47014. . .	7.40	92.60	1.70	34.75	19.36	6.860	2.625	1.953	2.282	0.57	0.33

A solid meat extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen nearly meets standard requirements; meat base nitrogen is somewhat low.

VIMBOS EXTRACT.

Number of Sample.	Water.	Solids.	Petrolie Ether Ex-tract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat Base).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
44139. . .	33.02	66.98	0.65	17.05	8.27	7.610	1.180	4.819	1.631	0.57	0.28
45618. . .	33.22	66.78	0.55	17.24	8.33	7.500	1.160	4.790	1.550	0.70	0.23
50140. . .	33.00	67.00	0.55	17.80	8.51	7.530	1.100	4.862	1.568	0.68	0.28
49110. . .	33.12	66.88	0.60	17.12	8.10	7.220	1.130	4.620	1.470	0.59	0.53
46157. . .	32.22	67.78	0.60	17.90	6.72	7.220	1.300	4.400	1.520	0.57	0.14
44140. . .	32.40	67.60	0.65	17.00	7.48	7.420	1.510	4.286	1.624	0.62	0.30
48604. . .	32.97	67.03	0.50	17.00	7.48	7.080	1.580	3.820	1.680	0.48	0.51
49605. . .	33.00	67.00	0.75	17.45	8.99	7.280	1.393	4.267	1.620	0.76	0.04
Mean	32.87	67.13	0.60	17.32	7.98	7.357	1.294	4.480	1.583	0.60	0.29

A Fluid Meat Extract. Meets standards except in meat base nitrogen, which is decidedly low.

5 GEORGE V., A. 1915

BULLETIN No. 267—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Feb. 9	Meat Extract.	47011	P. H. Holdsworth, Digby, N.S.	3 tins.	30	Oxo Co., London, Eng.	Mrs.	
" 16	"	47012	Nat. Drug & Chem. Co., Digby, N.S.	3 "	125	Leibigs, London, Eng.	"	
" 16	"	47013	" " "	3 ozs.	50	Bovril Ltd., London, Eng.	"	
" 19	"	47014	J. McD. Taylor, Digby, N.S.	3 pkgs	30	Bovril Ltd., Montreal.	A. B. Mitchell, Halifax, N.S.	
" 29	"	47015	S. A. Rounsefell, Lunenburg, N.S.	1 "	25	Oxo Co., London, Eng.	Mrs.	

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 6	Meat Extract.	46156	J. G. Jamieson, Ch'town, P.E.I.	3 pkgs	105	Leibigs Ltd., London, Eng.		
" 6	"	46157	Apothecaries Hall, Co., Charlottetown, P.E.I.	3 "	105	Bovril Ltd., Montreal.		
" 7	"	46158	Stewart & Son, Charlottetown, P.E.I.	3 "	30	.....	Corneille, David & Co., Toronto.	
" 7	"	46159	Beer & Goff, Charlottetown, P.E.I.	3 "	90	Alpin & Barrett, Yeovil, England.		
" 9	"	46160	John McKenna, Ch'town., P.E.I.	3 "	105	Armours Ltd., Toronto.		

DISTRICT OF NEW BRUNSWICK—

Feb. 6	Meat Extract.	45616	H. W. Cole, Ltd., St. John, N.B.	3 tins.	30	Oxo, London, Eng.	Oxo	
" 6	"	45617	Pidgeon & Co., St. John, N.B.	3 pkgs	75	Armours Ltd., Toronto.	Armours	
" 14	"	45618	Nat. Drug & Chem. Co., St. John, N.B.	3 tins.	82	Bovril Ltd., Montreal.	Vimbos	
" 14	"	45619	" " "	3 jars.	50	"	Bovril	
" 13	"	45620	Fairweather Bros., Moncton, N.B.	3pkgs	75	Nat. Drug & Chem. Co. of Canada.	Extract of Be-f.	

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Petroleum Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as							
					Total.	Insoluble.	Ppt. by Tan- nin Salt.	Tannin Salt Filtrate. (Meat bases)	Kreatinin.	Kreatin.		

R. J. WAUGH, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
11.00	89.00	3.00	34.55	25.07	7.672	1.631	3.437	2.604	0.67	0.38	47011	Cubes. Ash and salt too high. Fat too high.
24.40	75.60	0.50	18.20	3.07	10.388	0.434	5.096	4.858	0.72	1.47	47012	
45.52	54.48	0.55	14.98	8.60	5.432	1.015	2.401	2.016	0.54	0.26	47013	Fluid Meat Extract.
7.40	92.60	1.70	34.75	19.36	6.860	2.625	1.953	2.282	0.57	0.33	47014	Solid Extract; Cubes. Ash and salt too high. Fat too high. Total nitrogen low.
11.15	88.85	3.35	34.90	26.50	7.280	1.628	3.328	2.324	0.53	0.55	47015	Cubes. Ash and salt too high. Fat too high.

WM. A. WEEKS, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
24.80	75.20	0.55	18.00	3.05	10.640	0.364	5.264	5.012	0.70	1.50	46156	
32.22	67.78	0.60	17.90	6.72	7.220	1.300	4.400	1.520	0.57	0.14	46157	Fluid Meat Extract.
10.65	89.35	3.70	34.05	24.87	7.672	1.582	3.486	2.604	0.67	0.45	46158	Cubes. Ash and salt too high. Fat too high.
9.25	90.75	4.45	53.65	23.93	2.996	0.133	0.973	1.890	0.33	0.11	46159	Solid Extract; Cubes. Ash and salt much too high. Fat too high. Nitrogen too low. Contains vegetables by acknowledgement.
22.40	77.60	1.00	19.20	4.91	8.540	0.189	4.389	3.962	0.70	0.60	46160	

J. C. FERGUSON, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
10.10	88.90	3.25	33.50	25.27	7.476	1.603	3.283	2.590	0.59	0.56	45616	Cubes. Ash and salt too high. Fat too high.
21.65	78.35	1.00	19.40	4.49	8.764	0.322	4.536	3.906	0.81	0.42	45617	
33.22	66.78	0.55	17.24	8.33	7.500	1.160	4.790	1.550	0.70	0.23	45618	Fluid Meat Extract.
44.23	55.77	0.55	14.90	8.61	5.152	1.078	2.072	2.002	0.56	0.39	45619	" "
24.20	75.80	0.50	22.40	13.69	7.000	0.125	4.453	2.422	0.18	0.15	45620	

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BULLETIN No. 267—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912								
Feb.	5	Meat Extract	37373 V. Giroux, 16 Rue St. Pierre, Quebec.	3 pkgs	150	Australian Meat Co.	Watt, Scott & Goodacer.	
"	5	"	37374 Dr. Ed. Morin, 113 3 Cote Lamontagne, Quebec.	"	105	"	"	
"	5	"	37375 Laroche Co., 4 Rue La Fabrique, Quebec.	3	240	Leibigs, London, Eng.	Lyman's Ltd.	
"	5	"	37376 J. E. Livernois, St. Jean & Bouvillard, Quebec.	3	75	Australian Meat Co.	Mfrs.	
"	5	"	37377 F. C. Lachevrotiere, 224 Rue St. Jean.	3	120	"	W. Brunet & cie, Quebec.	

DISTRICT OF ST. HYACINTHE—

Feb.	20	Meat Extract.	39053 Ed. Leblanc, St. Jean	3 tins.	135	American Fluid Beef Co.		
"	21	"	39053 Alb. Pratte, Magog.	3	75	Bovril Ltd., London.		
"	21	"	39054 Nap. Hamel, Magog	3	100	Colonial Fluid Beef Co., Montreal.		
"	27	"	39055 Jos. Picard, St. Guillaume.	3	300	"		
Mar.	6	"	39056 Neal Bros., Waterloo	3	45		From stock of A.C. Gilmore, Waterloo.	

DISTRICT OF MONTREAL—

Feb.	16	Meat Extract.	40831 Bovril Ltd., Montreal	3 bots	70	Vendors		Bovril.
"	16	"	40832 Colonial Fluid Beef & Specialty Co., Montreal.	3	45	"		Red Cross.
"	16	"	40833 B. Fox, 168 St. Lawrence Boulevard, Montreal.	3	75			Oxo.
"	16	"	40834 B. Kam. 395 St. Lawrence Boulevard, Montreal.	3	75	Armour's Ltd., Toronto.		
"	16	"	40835 L. O. D'Argencourt, 379 St. Denis St., Montreal.	3	105			Leibigs.

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.	
Water.	Solids.	Petroleic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as						No. of Sample.
					Total.	Insoluble.	Ppt. by Tan- nin Salt.	Tannin Salt Fake. (Meat bases)	Kreatinin.			Kreatin.

F. X. W. E. BELAND, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
17.33	82.67	0.70	22.80	4.37	8.962	0.261	3.925	4.774	2.32	1.16	37373
17.70	82.30	0.90	23.15	5.05	8.840	0.350	3.632	4.858	2.32	0.70	37374
24.20	75.80	0.35	18.70	2.74	10.360	0.392	4.942	5.026	0.75	1.76	37375
17.05	82.95	0.55	23.25	4.52	8.960	0.335	3.641	4.984	2.12	1.47	37376
17.85	82.15	0.85	22.75	5.21	9.268	0.364	4.116	4.788	0.62	2.15	37377

J. C. ROULEAU, INSPECTOR.

45.90	54.10	1.00	14.10	18.12	5.488	1.764	2.384	1.340	0.45	0.13	39052	Fluid Meat Extract. Salt too high.
40.75	59.25	0.65	15.23	8.63	5.208	0.994	2.310	1.904	0.73	0.16	39053	" "
37.70	62.30	1.15	18.19	7.62	7.280	2.128	3.890	1.260	0.10	0.04	39054	" "
55.60	44.40	1.15	19.00	8.13	4.592	1.652	2.173	0.767	0.13	0.07	39055	" "
40.75	59.25	1.50	22.60	6.70	2.968	0.378	2.666	0.924	0.33	0.14	39056	Solids too low. Fluid Meat Extract. Fat too high. Nitrogen too low.

J. J. COSTIGAN, INSPECTOR.

41.24	58.76	0.95	14.35	8.83	5.348	1.155	2.193	2.000	0.62	0.44	40831	Fluid Meat Extract.
42.00	58.00	1.25	17.83	7.89	5.292	1.505	2.457	1.330	0.40	0.32	40832	" "
35.00	65.00	1.25	19.21	9.19	6.048	0.840	2.828	2.380	0.64	0.23	40833	" "
21.75	78.25	0.75	19.76	5.19	8.764	0.273	4.537	3.934	0.78	0.48	40834	
19.55	80.45	0.95	28.30	12.20	8.960	0.252	3.508	5.110	2.32	0.70	40835	

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BULLETIN No. 267—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Feb. 12	Meat Extract.	50136	Ellis Bros., Somerset St., Ottawa.	3 jars.	75	Armour's Ltd., Toronto.	Mfrs.....	Armour's. Made from finest quality of fresh beef.
" 12	"	50137	Wm. York, Somerset St., Ottawa.	3 box's	30	.....	Corneille Davis & Co., Toronto.	Oxo Cubes...
" 12	"	50138	T. Bowman, Somerset St., Ottawa.	3 bots	75	Bovril Ltd., London, Eng.	F. J. Castle & Co., Ottawa	Bovril.....
" 19	"	50139	Jos. P. Valiquette, Dalhousie St., Ottawa.	3 tins.	75	E. S. Burnham Co., New York.	S. J. Major, Ltd., Ottawa	Bovim Highly concentrated extract of meat and vegetables.
" 20	"	50140	Bryson Graham, Ltd. Ottawa.	3 "	69	Bovril Ltd., Montreal.	Mfrs.....	Johnston's Fluid Beef.

DISTRICT OF KINGSTON—

Feb. 5	Meat Extract.	49536	H. M. Stover, Kings-ton.	3 pkgs	75	Armour's, Toronto.	.....	.....
" 5	"	49537	W. J. Arnill, Kings-ton.	3 "	75	Bovril, London	.....	.....
" 7	"	49538	W. D. Stephens, Port Hope.	3 "	75	Armour's, Toronto.	.....	.....
" 8	"	49539	J. E. Lillico, Peter-boro.	3 "	60	Bovril.....	.....	.....
" 8	"	49540	A. Pearson, Peter-boro.	3 "	105	"	.....	.....

DISTRICT OF TORONTO—

Feb. 7	Meat Extract.	49357	Geo. Harding, 227 King St., Hamilton.	3 bots.	60	Bovril Ltd., London.	.....	Bovril.....
" 17	"	49358	The Wm. Davies Co., Ltd., 521 Queen St. east, Toronto.	3 pkgs	30	Vendors	.....	Solid Beef Extract.
" 17	"	49359	J. E. Sweet, 481 Queen St., east, Toronto.	3 "	60	.....	Unknown	Bovril.....
" 20	"	49360	J. A. Armour, Owen Sound.	3 bots.	60	.....	Corneille, David & Co., Toronto.	Oxo.....
" 28	"	49361	F. T. Higgins, 808 Queen St. east, Toronto.	3 pkgs	30	.....	Wenen Bros., Toronto.	Oxo cubes...

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Petrole Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as					Creatinin.			
					Total.	Insoluble.	Ppt. by Tan- nin Salt.	Tannin Salt Filtrate. (Meat bases)	Kreatinin.				
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
21.00	79.00	0.85	19.40	5.28	8.596	0.308	4.480	3.808	0.57	0.62	50136		
11.95	88.05	3.55	34.80	24.88	7.924	1.624	3.794	2.506	0.62	0.32	50137	Cubes. Ash and salt too high. Fat too high.	
43.10	56.90	0.65	15.33	9.11	5.376	1.106	2.212	2.058	0.64	0.23	50138	Fluid Meat Extract.	
7.00	93.00	2.60	43.70	19.63	3.324	0.105	1.469	1.750	0.21	0.18	50139	Meat and vegetables, cubes. Ash and salt too high. Fat too high. Nitrogen too low. Contains vegetables by acknowledgment.	
33.00	67.00	0.55	17.80	8.51	7.530	1.100	4.862	1.568	0.68	0.28	50140	Fluid Meat Extract.	

J. A. RICKEY, INSPECTOR.

JAS. HOGAN, INSPECTOR.

21.50	78.50	1.05	19.30	5.72	8.428	0.203	4.585	3.640	0.65	0.68	49536		
45.15	54.85	1.05	14.90	8.35	5.040	1.085	2.135	1.820	0.67	0.38	49537	Fluid Meat Extract.	
24.30	75.70	1.10	19.00	4.93	8.456	0.231	4.725	3.500	0.73	0.71	49538		
41.90	58.10	0.75	14.48	8.90	5.040	1.090	2.009	1.932	0.64	0.30	49539	Fluid Meat Extract.	
44.95	55.05	1.00	15.20	8.88	5.572	1.057	2.639	1.876	0.57	0.36	49540	" "	

H. J. DAGER, INSPECTOR.

45.15	54.85	0.95	14.63	8.44	5.208	1.085	2.289	1.834	0.54	0.30	49357	Fluid Meat Extract.	
20.80	79.20	0.25	15.12	8.32	9.184	0.196	5.088	4.900	1.30	0.80	49358		
41.05	58.95	1.05	15.15	9.10	5.404	1.057	2.401	1.946	0.54	0.36	49359	Fluid Meat Extract.	
34.90	65.10	1.30	19.65	9.65	6.244	1.060	2.752	2.492	0.50	0.46	49360	" " Fat too high.	
11.10	88.90	2.90	35.05	25.77	7.868	1.778	3.514	2.576	0.57	0.38	49361	Cubes. Ash and salt too high. Fat too high.	

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BULLETIN No. 267—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF LONDON—								
1912.								
Feb. 19	Meat Extract.	47884	W. S. Cole, Exeter.	3 pkgs	75	Nat. Drug Co.		Nat. Drug Co. Brand.
" 19	"	47886	W. S. Howey, Exeter.	3 "	75	Leibigs Co., London, Eng.		
" 20	"	47892	W. S. R. Holmes, Clinton.	3 "	75	Bovril Ltd., London, Eng.		
" 20	"	47895	J. E. Hovey, Clinton.	3 "	75	Armour's Ltd., Toronto		Armour's.
" 20	"	48202	W. A. McConnell, Clinton.	3 "	75	Leibigs Co., London, Eng.		Oxo cubes.
DISTRICT OF WINDSOR—								
Feb. 9	Meat Extract.	47864	Anderson & Nelles, London.	3 pkgs	75	Leibig Oxo Co., London, Eng.		Oxo
" 6	"	48079	John Diprose, London.	3 jars.	60	Bovril Ltd., J. S. Johnstone.		
" 7	"	48087	Thos. Shaw, London, east.	3 pkgs	30	Oxo, London, Eng.		
" 8	"	48098	Taylor Drug Co., London.	3 "	75	Nat. Drug Co.		
" 9	"	48100	W. T. Strong, London.	3 jars.	75	Armour's Co., Ltd., Toronto.		
DISTRICT OF MANITOBA—								
Feb. 20	Meat Extract.	48601	A. Macdonald & Co., Portage Ave., Winnipeg.	3 pkgs	105	Bovril Ltd., England.		
" 20	"	48602	" " "	3 "	30			Oxo.
" 21	"	48603	H. E. Weldon & Co., Portage Ave., Winnipeg.	3 "	105	Leibigs Ltd., London.		
" 21	"	48604	The Codville Co., Winnipeg.	3 "	82	Johnston's Fluid Beef.		
" 21	"	48605	" " "	3 "	75	Armour & Co., Chicago.		Vigoral.
DISTRICT OF CALGARY—								
Mar. 6	Meat Extract.	44136	Capital Mercantile Co., Edmonton.	3 bots	100	Leibigs Co., Ltd., London Eng.		
" 7	"	44137	Hudson Bay Co., Edmonton.	3 "	160	Bovril Ltd., London, Eng.		
" 7	"	44138	Acme Co., Edmonton	3 "	100	Leibigs Co., Ltd., London Eng.		
" 8	"	44139	Hallier & Aldridge, Edmonton.	3 tins.	150	Bovril Ltd., Montreal.		
" 8	"	44140	J. H. Morris & Co., Ltd., Edmonton.	3 pots	100	"		

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.													No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Petroleum Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as									
					Total.	Insoluble.	Ppt. by Tan- nin Salt.	Tannin Salt Filtrate. (Meat base)	Creatinin.	Creatin.				
JNO. TALBOT, ACTING INSPECTOR.														
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
24 15	75 85 0 75	21 90	13 70	6 092	0 441	3 661	2 590	0 17	0 05	47884				
34 10	65 90 1 15	19 39	9 33	5 852	0 810	2 531	2 478	0 54	0 26	47886	Fluid Meat Extract.			
45 45	54 55 0 90	15 45	9 30	5 544	1 092	2 492	1 960	0 53	0 27	47892	"			
23 30	76 70 0 65	20 50	5 11	8 792	0 202	4 726	3 864	0 67	0 33	47895				
10 75	89 25 3 50	35 05	25 62	7 420	1 589	3 311	2 520	0 70	0 34	48202	Cubes. Ash and salt too high. Fat too high.			
JNO. TALBOT, INSPECTOR.														
33 30	66 70 1 15	20 20	9 82	5 992	0 728	2 772	2 492	0 62	0 32	47864	Fluid Meat Extract.			
45 25	54 75 0 75	14 18	9 00	5 400	1 629	2 457	1 974	0 61	0 14	48079	"			
10 45	89 55 3 45	35 05	24 43	7 616	1 610	3 346	2 660	0 67	0 38	48087	Cubes. Ash and salt too high. Fat too high.			
24 05	75 95 1 20	22 01	13 88	6 524	0 326	3 622	2 576	0 20	0 00	48098				
23 90	76 16 1 00	19 30	5 23	8 764	0 256	4 886	3 612	0 62	0 61	48100				
A. C. LARIVIÈRE, INSPECTOR.														
40 25	59 75 0 75	14 36	8 71	5 124	1 008	2 156	1 960	0 57	0 49	48901	Fluid Meat Extract.			
12 05	87 95 3 85	35 20	24 74	7 476	1 582	3 612	2 282	0 70	0 44	48902	Cubes. Ash and salt too high. Fat too high.			
24 50	75 50 0 85	18 50	2 68	9 884	0 402	4 610	4 872	0 72	1 27	48603				
32 97	67 03 0 50	17 00	7 48	7 080	1 580	3 820	1 680	0 48	0 51	48604	Fluid Meat Extract.			
50 70	49 30 0 35	14 60	8 20	4 032	0 350	1 288	2 394	0 60	0 20	48905	"			
R. W. FLETCHER, INSPECTOR.														
34 70	65 30 1 30	19 30	9 28	5 964	0 994	2 478	2 492	0 50	0 44	44136	Fluid Meat Extract. Fat too high.			
44 75	55 25 1 00	14 99	8 39	5 628	1 036	2 632	1 960	0 62	0 27	44137	"			
34 75	65 25 1 10	19 90	9 78	6 160	0 812	3 066	2 282	0 76	0 18	44138	"			
33 02	66 98 0 65	17 05	8 27	7 610	1 180	4 819	1 631	0 57	0 28	44139	"			
32 40	67 60 0 65	17 00	7 48	7 420	1 510	4 286	1 624	0 62	0 30	44140	"			

5 GEORGE V., A. 1915

EULLETTIN No. 267—

Date of Collection	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.								
Feb. 13	Meat Extract.	48488	Mallory Drug Co., Kamloops, B.C.	3 pots	150	Nat. Drug Co. Montreal.		
" 13	"	49605	Stevens & Allan, Kamloops, B.C.	3 cans	150	Bovril Ltd., Montreal.		
" 13	"	49615	Wilson Grocery Co., Kamloops, B.C.	3 jars.	120	Bovril Ltd., London.		
" 20	"	49627	J. J. Ling & Co., Ashcroft, B.C.	3 tins.	105	Armour Co. Chicago.		
" 26	"	49631	Canada Drug & Book Co., Nelson, B.C.	3 bots	105	"		

DISTRICT OF VANCOUVER—

Feb. 21	Meat Extract.	38310	Hudson's Bay Co., Vancouver.	3 jars.	180	Brand & Co., London, Eng		Consists of the juice of the finest beef.
" 21	"	38311	London Grocery Co., Ltd., Vancouver.	3 "	75	Bovril Ltd., London, Eng		A combination of the Extractives of the Albumen and fibrin of beef. Absolutely pure.
" 21	"	38312	Woodward Dept. Stores, Vancouver.	3 "	75	Am. Fluid Beef Co., Montreal		Contains the fibrine and Albumenoids of prime beef
" 21	"	38313	H. A. Edgett Co., Ltd., Vancouver.	3 "	75	Armour Ltd., Toronto.		Made only from the finest quality of fresh beef.
" 21	"	38314	David Spencer Ltd., Vancouver.	3 "	45	Northland Mfg., Co., Toronto.		Nutri-Ox Concentrated fluid beef.

DISTRICT OF VICTORIA—

Feb. 27	Meat Extract.	49110	Windsor Grocery Co., Victoria, B.C.	3 pkgs	150	Bovril Ltd., Montreal.		Johnston's Fluid Beef.
" 28	"	49111	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Armour Ltd., Toronto.		Armour's
" 29	"	49112	D. H. Ross & Co., Victoria, B.C.	3 "	75	Armour & Co., Chicago.		Vigoral
Mar. 1	"	49113	Capas & Young, Victoria, B.C.	3 "	60	Bovril Ltd., London, Eng		Bovril
" 1	"	49114	Wm. B. Hall, Victoria, B.C.	3 "	90	Leibigs Co., London, Eng		Oxo

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MEAT EXTRACTS.

Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Petroleic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as						Kreatinin.		
					Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).	Kreatinin.				
THOS. PARKER, INSPECTOR.													
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
25.90	74.10	0.40	22.75	14.09	7.224	0.658	4.466	2.100	0.13	0.15	48488		
33.00	67.00	0.75	17.45	8.99	7.280	1.393	4.267	1.620	0.76	0.04	49605	Fluid Meat Extract.	
44.70	55.30	0.85	15.30	8.90	5.628	1.090	2.498	2.040	0.76	0.28	49615	" "	
22.25	77.75	0.93	20.55	5.58	8.484	0.364	4.480	3.640	0.65	0.55	49627		
52.20	47.80	0.30	15.40	8.33	3.752	0.175	1.673	1.904	0.36	0.16	49631	Fluid Meat Extract. Solids slightly low.	
J. F. POWER, INSPECTOR.													
90.30	9.70	0.90	1.40	0.98	1.652	0.044	0.343	1.265	tr'ce	tr'ce	38310	Meat juice.	
43.15	56.85	0.60	14.40	8.34	5.152	1.001	1.897	2.254	0.60	0.23	38311	Fluid Meat Extract.	
45.25	54.75	1.35	14.62	8.39	5.684	1.361	3.021	1.302	0.53	0.10	38312	Fluid Meat Extract. Fat too high.	
23.50	76.50	1.05	20.30	5.32	8.260	0.399	4.194	3.667	0.63	0.60	38313		
45.35	55.65	2.35	16.30	9.69	4.340	0.546	1.302	2.492	0.50	0.22	38314	Fluid Meat Extract. Fat too high.	
D. O'SULLIVAN, INSPECTOR.													
33.12	66.88	0.60	17.12	8.10	7.220	1.130	4.620	1.470	0.59	0.53	49110	Fluid Meat Extract.	
21.35	78.65	0.75	19.80	5.19	8.204	0.315	4.501	3.388	0.60	0.74	49111		
50.80	49.20	0.25	15.23	8.60	3.808	0.448	1.330	2.030	0.58	0.21	49112	Fluid Meat Extract.	
43.00	57.00	0.80	15.67	9.15	5.656	1.085	2.550	2.021	0.64	0.24	49113	" "	
34.10	65.90	1.00	19.69	9.45	5.740	0.840	2.548	2.352	0.62	0.30	48114	" "	

APPENDIX K.

BULLETIN No. 268—HEADACHE POWDERS,

OTTAWA, September 17, 1913.

W.M. HINSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I have the honour to present you a report upon 171 samples of Headache Powders purchased by our Inspectors during February and March of this year.

Our last inspection of Headache Powders was made in April, 1911, and is reported in Bulletin No. 230. It is satisfactory to find that the present inspection shows a very great improvement in the character of those much used drugs, as well as in the conditions of their sale.

There can be no doubt that harm is done by the indiscriminate use of Headache Powders. In the natural desire to put a stop to pain, too little consideration is given to the fact that headache is merely a symptom of something wrong, and not itself a disease. Over-fatigue, irregularities in digestion or excretion, nervousness, and many other causes give rise to headache as a prominent symptom, and the employment of a sedative drug to allay the pain, instead of seeking the fundamental cause of the disturbance, and treating that, may be very harmful, as it is evidently an unreasoning, policy. The drugs to which the efficiency of most of these Headache Powders is due, are powerful heart depressants, and are capable, under certain conditions, of producing fatal results, while, under most conditions, they must do harm.

Acetanilide (antifebrin) and Phenacetin are most frequently found in these Headache Powders. The Proprietary or Patent Medicine Act (Sec. 7 (c)—) requires that when Acetanilide is present in quantity above two grains per maximum dose or Phenacetin above five grains, the name of the drug and the fact of its presence shall be declared on the label. Each of these drugs has other names, but the names given above are the common ones, and the only ones which may be used in announcing the drugs on the label.

The essential composition of these powders is as below:—

	Samples.
Containing acetanilide.....	130
“ phenacetin.....	23
“ acetanilide and phenacetin.	9
“ antipyrin “ “	1
“ none of the above drugs.	8
Total.....	171

It is permitted to add more than two grains of Acetanilide (or five grains of Phenacetin) if the fact of the presence of the drug is declared on the label. The following is a statement of the amount of Acetanilide found in those powders which contain it either alone or in combination with Phenacetin:—

	Samples.
Less than 2 grains.....	19
From 2 to 3 “	47
“ 3 to 4 “	40
“ 4 to 5 “	19
“ 5 to 6 “	7
Above 6 grains.	7
Total.....	139

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It would seem that manufacturers and the public find that sufficiently marked results are not obtained with two-grain doses, they prefer, therefore, to declare the presence of the drug, and to employ larger amounts. About 80 per cent of the Acetanilide powders contain less than 4 grains, and very few above six grains. The limit of dosage prescribed by the British Pharmacopœia are from one to three grains. It is evident that most of the Headache Powders offered for sale exceed the maximum amount named in the pharmacopœia; and, no doubt, serious results would more frequently follow their use were it not that they contain other drugs (usually Caffeine) which act as stimulants to the heart. A little reflection should convince the consumer of these powders that he is taking great liberties with his health and life.

Nearly all of the samples examined contain a declaration of the presence of Acetanilide or Phenacetin, and in this way meet the requirements of the Proprietary or Patent Medicine Act. Sometimes the declaration is made upon the wrapper of each individual powder, more frequently it is made upon the label of a box containing one dozen powders. The Department requires that it should be printed upon each individual powder covering, since it frequently happens that the user buys less than a package; and he may thus be unaware of the presence of Acetanilide.

A highly objectionable statement to the effect that the powder is a CURE is found on many labels. Headache is not a disease; and consequently no cure is needed. Headache is merely a warning of something being wrong; and a cure for that fundamental something is what is needed. These drugs are not a cure for indigestion, or fatigue, or whatever else this something may be; and it is utterly false to describe Headache Powders as a Cure.

If we except the fact that four of the samples reported declare Acetanilide under the name of Phenylacetamide and that seven samples declare Phenacetin as Acetphenetidin, all but eight must be held to meet the requirements of the Proprietary or Patent Medicine Act. Of this number, five are asserted to be manufactured by J. C. Mathieu, of Marlboro, Mass., viz.:—

	Acetanilide found.		Mean.
46420.....	4.9	5.0	4.95
1545.....	3.1	3.1	3.10
51213.....	3.5	4.2	3.85
51335.....	2.7	2.7	2.70
51743.....	3.7	3.3	3.50
Average.....			3.62 grains.
The others are:—			
50596.....	3.3	3.8	3.55
47968.....	3.3	3.8	3.55
49823.....	3.2	3.2	3.20

These eight samples contain decided excess of Acetanilide, above the two grains allowed by the Act, where the label does not contain a statement that the drug is present. Although the content of Acetanilide is actually less than in many cases where the announcement of its being present makes the sale of the sample legal, there is technical violation of the Act in the instances referred to.

I beg to recommend the publication of this report as Bulletin No. 268.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,
Chief Analyst

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BULLETIN No. 268

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1913.								
Mar.	6 Headache Wafers.	46956	National Drug Co., 1 doz. Halifax, N.S.	25	Nat. Drug Co., Toronto.			Wafers were loose wrapped in paper.
"	7 "	46957	Kinley's Ltd., 1 " Halifax, N.S.	25	Zymole Co., Windsor, Ont.	Mfrs.		
"	7 Headache Powders.	46958	Brown Bros. & Co., 1 " Halifax, N.S.	25	Nyals Co., Windsor, Ont.	"		"Nyals." Each powder contains 3 grains acetanilide, 1 grain caffeine. Relieves headaches from all causes.
"	10 "	46959	C. A. Barnstead, 1 " Halifax, N.S.	30	F. J. Wheaton, Amherst, N.S.	Mfr		"Kumfort" acetanilide acknowledged. Reg. No. 123 P. or P. Act.
"	10 "	46960	Buckley Drug Co., 1 " Halifax, N.S.	25	Vendors			"Buckley's. Acetanilide acknowledged. Reg. No. 353. P. or P. Act.
"	10 "	46961	J. McD. Taylor, 1 " Halifax, N.S.	25	Toronto Phar. Co., Toronto, Ont.	Mfrs		"Perfect." Acetanilide acknowledged. Are an instantaneous cure for headaches, neuralgia. Reg. No. 95. P. or P. Act.
"	10 Headache Wafers.	46962	R. S. McDonald, 1 " Halifax, N.S.	25	N. D. & C. Co., Halifax, N.S.	"		Wafers were loose wrapped in paper.
"	11 Headache Powders.	46963	H. A. Watson, 1 " Halifax, N.S.	25	Vendor			"Perfect." An instantaneous cure for headaches or neuralgia. Caffeine, acetanilide 2 grs. in each Powder.
"	19 "	46964	G. C. McDougall, 1 " Kentville, N.S.	30	United Drug Co., Toronto.	Mfrs		"Rexall." An immediate relief in neuralgia. Contains 5 grains acetphenetidin. Reg. No. 1803. P. or P. Act.
"	24 "	46965	Crowe Bros., Truro, 1 " N.S.	15	"			Powders were loose wrapped in paper.

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HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grams.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	
	No. 1.	4.8	None.	None.	None.	46956 Meets requirements of P. or P. Act.
	No. 2.	4.5	"	"	"	
	No. 1.	8.5	4.0	.....	.....	46957 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.6	4.1	.....	.....
One powder, repeated in an hour if necessary. Not more than two powders should be taken in succession.	No. 1.	4.9	3.2	.....	.....	46958 " "
	No. 2.	5.0	3.3	.....	.....
Children under 10 years $\frac{1}{2}$ of a powder; 10 to 15 years $\frac{1}{2}$ a powder. Adults: One powder repeated in $\frac{1}{2}$ an hour if needed.	No. 1.	7.5	3.1	.....	.....	46959 " "
	No. 2.	6.3	2.5	.....	.....
One powder. Repeat in $\frac{1}{2}$ an hour if pain is not all gone. Then one every 4 hours.	No. 1.	4.5	3.3	..	.....	46960 " "
	No. 2.	4.5	3.1	..	.....
One powder. Repeat in $\frac{1}{2}$ an hour if not relieved.	No. 1.	10.8	2.1	.....	.....	46961 " "
	No. 2.	10.8	2.1	.....	.....
	No. 1.	4.7	None.	None.	None.	46962 Meets requirements of P. or P. Act.
	No. 2.	9.0	"	"	"	
One powder. Repeat in $\frac{1}{2}$ an hour if not relieved.	No. 1.	7.8	1.6	.....	.....	46963 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	11.0	2.3	.....	.....
One powder. For severe headache repeat the dose once in 20 minutes.	No. 1.	7.3	.....	5.0	.....	46964 Phenacetin declared as acetphenetidin. Meets requirements of P. or P. Act.
	No. 2.	7.7	.....	5.0	.....
	No. 1.	6.3	.....	4.2	.....	46965 Meets requirements of P. or P. Act.
	No. 2.	7.4	.....	4.5	.....

R. J. WAUGH, INSPECTOR.

5 GEORGE V., A. 1915

BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF PRINCE EDWARD ISLAND.								
1913.								
Feb. 26	Headache Powders.	46414	J. G. Jameson, Charlottetown, P.E.I.	1 box	25	The T. Milburn Co., Ltd., Toronto.		This sample is described like No. 50592.
Mar. 3	Headache Wafers.	46415	Reddin Bros., Charlottetown, P.E.I.	1 "	25	The Zymole Co., New York.		Wafers were loose wrapped in paper.
" 11	Headache Powders.	46416	C. P. Rankin, Charlottetown, P.E.I.	1 "	25	H. K. Wampole, Perth, Ont.		Powders were loose wrapped in paper.
" 14	"	46417	E. A. Foster, Charlottetown, P.E.I.	3 pkgs	30	F. J. Wheaton Co., Ltd., Amherst, N.S.		This sample is described like No. 50591.
" 14	Headache Wafers.	46418	" " "	1 box	25	F. Stearns, Windsor, Ont.		Wafers were loose wrapped in paper, each wafer stamped with the word Shac.
Apr. 25	Headache Powders.	46419	Keir & McFadyen, Kensington, P.E.I.	1 doz.	30	H. K. Wampole & Co., Perth, Ont.		"Keir's." For headache, neuralgia and feverish conditions. Acetanilide acknowledged.
" 25	"	46420	Dr. F. W. Jardine,	1 "	25	J. L. Mathieu, Marlboro, Mass.		This sample is described like No. 1545.
" 25	"	46421	" " "	1 "	30	F.G. Wheaton Co., Ltd., Folly Village, N.S.		This sample is described like No. 50591
" 25	"	46422	Gourlies Ltd., S. Side, P.E.I.	1 "	25	United Drug Co., Ltd., Toronto.		This sample is described like No. 46964.
" 25	"	46423	McLellan & Co., S. Side, P.E.I.	1 "	25	The T. Milburn Co., Ltd., Toronto.		"Dr. Lows" . . .

DISTRICT OF NEW BRUNSWICK—

Feb. 27	Headache Powders.	50590	William Hawker & Son, St. John, N.B.	3 pkgs	30	Toronto Phar. Co., Ltd., Toronto.		This sample is described like No. 46961.
" 28	"	50591	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 "	100	F. G. Wheaton Co., Ltd., Amherst, N.S.		"Kumfort." Gives prompt relief in headache, neuralgia or pain attending Lagrippe. Acetanilide acknowledged. Reg. No. 123 P. or P. Act.

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HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide Antifebrin.	Phenacetin.	Antipyrine= Phenazone.		
WM. A WEEKS, INSPECTOR.							
			grs.	grs.	grs.		
	No. 1.	13.7	6.4	.....	.....	46414	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14.2	5.7	.....	.....
	No. 1.	7.5	3.5	.....	.....	46415	" "
	No. 2.	7.4	3.5	.....	.....
	No. 1.	10.4	3.9	.....	.....	46416	" "
	No. 2.	11.9	4.5	.....	.....
	No. 1.	2.4	1.2	.....	.....	46417	" "
	No. 2.	7.5	3.0	.....	.....
	No. 1.	7.2	3.5	.....	.....	46418	" "
	No. 2.	8.6	4.0	.....	.....
One powder, repeated in $\frac{1}{2}$ an hour if necessary, at least 3 hours should elapse before another dose is taken. A seidlitz powder or other mild laxative should be taken with the first dose. For sleeplessness one powder on retiring.	No. 1.	11.4	4.2	.....	.....	46419	" "
	No. 2.	12.3	4.7	.....	.....
	No. 1.	7.2	4.9	.....	.....	46420	Excess acetanilide not declared Sold illegally.
	No. 2.	8.1	5.0	.....	.....
	No. 1.	1.8	0.8	.....	.....	46421	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.3	3.3	.....	.....
	No. 1.	5.6	.....	3.7	.....	46422	Phenacetin declared as acetphenetidin. Meets requirements of P. or P. Act.
	No. 2.	3.9	.....	2.7	.....	
One powder for adults. Children under 10 years $\frac{1}{2}$ of a powder; 10 to 15 years $\frac{1}{2}$ a powder. If necessary repeat in 30 minutes.	No. 1.	14.7	6.4	.....	.....	46423	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14.4	5.5	.....	.....
J. C. FERGUSON, INSPECTOR.							
	No. 1.	7.9	1.5	.....	.....	50590	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7.8	1.5	.....	.....
Children under 10 years $\frac{1}{2}$ of a powder; 10 to 15 years $\frac{1}{2}$ a powder. Adults 1 powder. Repeat in $\frac{1}{2}$ an hour if needed.	No. 1.	5.7	2.3	50591	" "
	No. 2.	7.4	3.0		

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BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1913.								
Mar. 6	Headache powders.	50592	The Canadian Drug Co., Ltd., St. John, N.B.	3 pkgs	30	The T. Milburn Co., Ltd., Toronto.		"Milburn's" "Sterling." Cures headaches, cold in the head and neuralgia; absolutely harmless. Acetanilide acknowledged. Each powder, 5.866 grains. Reg. No. 71 P. or P. Act.
" 10	"	50593	Frank E. Porter, St. John, N.B.	3 "	25	Vendor.		"Peerless." For headaches, neuralgia and feverish conditions. Acetanilide acknowledged. 4½ grs. each powder.
" 12	"	50594	E. Clinton Brown, St. John, N.B.	3 "	25			"Brown's." Acetanilide acknowledged.
Apr. 10	"	50595	Johnston & Johnston, St. Stephen, N.B.	3 "	30	United Drug Co., Ltd., Toronto.		This sample is described like No. 46964.
" 15	"	50596	John M. Wiley, Fredericton, N.B.	1 doz.	30	Vendor.		"Wiley's."
" 16	"	50597	The Baird Co., Ltd., Woodstock, N.B.	1 "	35	Vendors.		"Bowman's." For headaches, nervousness, sleeplessness, feverish conditions, colds, &c. Acetanilide acknowledged. 3 grains in each powder.
" 18	Headache Wafers.	50598	Wade Drug Co., Perth, N.B.	1 pkge	25	F. Stearns & Co., Windsor, Ont.		"Shac." "Stearns' Headache Cure. A speedy relief for headaches of all origin; a relief in neuralgia. Is a general pain cure. Acetanilide acknowledged. 3 grs. in each wafer.
" 23	Headache Powders.	50599	B. J. Sharp, Sussex, N.B.	1 doz.	30	Gibson, Howell Co., Phila., Pa.		"Gibson's." This sample is described like No. 50593.

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HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
Children from 5 to 10 years $\frac{1}{4}$ No. 1. to $\frac{1}{2}$ of a powder; 10 to 15 years $\frac{1}{2}$ to $\frac{3}{4}$ of a powder. Adults 1 powder. Repeat the dose in 30 minutes.	No. 1. No. 2.	17.2 16.3	7.4 7.2	..... .....	..... .....	50592	Acetanilide declared. Meets requirements of P. or P. Act.
One powder for headaches repeated in 30 minutes if necessary. 3 hours should elapse before another dose is taken. A seidlitz powder or other mild laxative should be taken with the first dose. Care should be taken in administering to children. For sleeplessness one powder on retiring.	No. 1. No. 2.	11.4 11.6	4.4 4.5	..... .....	..... .....	50593	" "
One powder. If not relieved in $\frac{1}{2}$ an hour another powder may be taken.	No. 1. No. 2.	5.1 6.9	3.7 4.9	..... .....	..... .....	50594	" "
.....	No. 1. No. 2.	9.4 8.9	..... .....	6.0 5.9	..... .....	50595	Phenacetin declared as acetphenetidin, and present in slight excess. Otherwise meets requirements of act.
One powder. If not relieved in $\frac{1}{2}$ an hour another powder may be taken.	No. 1. No. 2.	5.3 6.8	3.3 3.8	..... .....	..... .....	50596	
One powder, repeated in 20 minutes if not relieved	No. 1. No. 2.	9.7 9.8	3.1 3.2	..... .....	..... .....	50597	Acetanilide declared. Meets requirements of P. or P. Act.
One wafer for adults repeated in an hour if not relieved. Not more than 2 wafers should be taken in succession.	No. 1. No. 2.	6.2 3.9	2.9 1.9	..... .....	..... .....	50598	" "
.....	No. 1. No. 2.	11.3 11.2	4.3 4.2	..... .....	..... .....	50599	" "

J. C. FERGUSON, INSPECTOR.

5 GEORGE V., A. 1915
BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Conts.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC—								
1913.								
Feb. 24	Headache Wafers.	37173	Benjamin Crepeault, 68 Rue Cremasie, Montcalmville.	1 doz.	15	Red Cross Pharmaceutical Co., Quebec.	N. Turcot & Cie, Quebec.	"Red Cross." A relief for headaches and neuralgia. 3 grs. of phenylacetamide in each wafer.
" 25	"	37174	T. Racine, 66 Rue Cremasie, Montcalmville.	1 "	18	"	"	"RedCross." Wafers were loose wrapped in paper.
" 25	"	37175	Dr. A. Fournier, 65 Rue Cremasie, Montcalmville.	1 "	15	Dunlop Phar. Co., Montreal.	Nat. Drug Co., Montreal.	"Dunlop's" acetanilide acknowledged.
" 25	"	37176	"	1 "	20	The Hervay Chem. Co., St. Basile, Canada.	W. Brunet & Cie, Quebec.	"Hervay's." A sure remedy for headaches of all kinds. 4 grains acetanilide in each wafer. Reg. No. 238. P. or P. Act.
" 26	"	37177	Jos. Brulot, 111 Chemin St. Foie.	1 "	20	Pharmaceutical Co., Quebec.	Mfrs....	"RedCross." Wafers were loose wrapped in paper.
" 27	"	37178	Jos. Bedard, 1131 2 ^{me} Rue Stadacona, Quebec.	1 "	20	The Ed. Morin Ltd., Quebec.	Unknown...	"Morin's." Reg.No. 88. P. or P. Act. 3 grains antifebrin.
" 27	"	37179	Francois Cleche, 4 ^{me} Rue 1118 Stadacona, Quebec.	1 "	15	"	Mfrs.	This sample is described like No. 37178.
Mar. 3	"	37180	Jos. F. Goslin, 50 Rue d'Orchester, Quebec.	1 "	15	Red Cross Phar. Co., Quebec.	"	This sample is described like No. 37173.
" 3	"	37181	"	1 "	15	Dr. Ed. Morin Co., Quebec.	"	This sample is described like No. 37178.
" 3	"	37182	Charle Martel, 49 Rue Artillerie Que.	1 "	15	Red Cross Pharmaceutical Co., Quebec.	Unknown...	This sample is described like No. 37173.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
One wafer for adult dose. Repeat in one hour if not relieved. More than 2 doses should not be taken in succession.	No. 1. No. 2.	6.4 8.8	2.0 2.8	..... .....	..... .....	37173	Acetanilide is declared as phenylacetamide. Otherwise meets requirements of P. or P. Act.
.....	No. 1. No. 2.	7.4 8.5	2.4 2.7	..... .....	..... .....	37174	Meets requirements of P. or P. Act.
One wafer. Repeated in one hour, but not more than 2 wafers should be taken in succession.	No. 1. No. 2.	9.4 9.4	3.4 3.5	..... .....	..... .....	37175	Acetanilide declared. Meets requirements of P. or P. Act.
One wafer. Repeated in an hour if cure is not obtained. Not more than 2 wafers in succession. Depression, if any, may be dispelled by taking a dessertspoonful of wine.	No. 1. No. 2.	14.3 14.1	4.0 3.9	..... .....	..... .....	37176	" "
.....	No. 1. No. 2.	9.8 8.1	3.0 2.4	..... .....	..... .....	37177	Meets requirements of P. or P. Act.
One wafer. Repeated in an hour if a cure is not obtained, but not more than 2 wafers to be taken in succession. Depression may be dispelled by taking a dessertspoonful of wine.	No. 1. No. 2.	11.1 9.3	2.8 2.5	..... .....	..... .....	37178	Acetanilide declared. Meets requirements of P. or P. Act.
.....	No. 1. No. 2.	10.9 9.1	2.8 2.8	..... .....	..... .....	37179	" "
.....	No. 1. No. 2.	8.0 9.2	2.6 2.9	..... .....	..... .....	37180	Acetanilide is declared as phenylacetamide. Otherwise meets requirements of P. or P. Act.
.....	No. 1. No. 2.	9.9 8.8	3.6 3.1	..... .....	..... .....	37181	Acetanilide declared. Meets requirements of P. or P. Act.
.....	No. 1. No. 2.	8.9 8.8	2.9 3.0	37182	Acetanilide is declared as phenylacetamide. Otherwise meets requirements of P. or P. Act.

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BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF THREE RIVERS—								
1913.								
Mar. 7	Headache Wafers.	57211	Esdras Asselin, St. Felix de Valois.	2½ bxs.	50	Williams Chem Co., New York.	.....	Wafers were loose wrapped in paper. Each wafer was stamped with mfrs. name and address.
" 7	"	57213	T. F. Gaudet, Joliette.	1 box	20	Joliette Chem. Co., Joliette.	.....	Wafers were loose wrapped in paper.
" 17	"	57226	Jos. Mosseau, St. Felix de Valois.	1 "	25	J.A.E. Gauvin, Montreal.	.....	.....
" 18	"	57230	Ernest Asselin, St. Felix de Valois.	1 "	20	Granger Freres.	.....	Wafers were loose in a box.
" 22	"	57246	T. F. Gaudet, Joliette.	2 "	50	Joliette Chem. Co., Joliette.	.....	"Dr. Neys." Acetanilide acknowledged.
" 24	Headache Tablets.	57249	Wilfrid Bisette, St. Felix de Valois.	2 "	25	Dr. Richards, London, Eng.	.....	Dr. Richards' Eureka Tablets for sick headache.
" 24	Headache Wafers.	57250	Esdras Asselin, St. Felix de Valois.	2 "	25	The Joliette Chem. Co., Joliette, P.Q.	.....	This sample is described like No. 57246.

DISTRICT OF EASTERN TOWNSHIPS—

Mar. 10	Headache Wafers.	1544	Dr. J. B. Drouin, Victoriaville.	1 box.	25	Chas. E. Frost & Co., Montreal.	.....	Wafers were loose wrapped in paper.
" 12	Headache Powders.	1545	P. C. Fortin, Beauceville.	1 "	15	.....	.....	Mathieu's Nervine Powders. Instant headache cure and neuralgia, etc.
" 13	Headache Tablets.	1546	D. M. Déchene, St. Marie Beauce.	1 "	20	B. N. Robinson Co., Coaticook.	.....	"Zutoo" Tablets. "Japanese Headache Cure." Cure all kinds of headaches, break up a cold, assuage the sharp pains of rheumatism and the monthly pains of woman. They cure ear sickness, sour stomach, and relieve indigestion. Reg. No. 1134. P. or P. Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grams.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine Phenazone.		
DR. V. P. LAVALLEE, INSPECTOR.							
			grs.	grs.	grs.		
	No. 1.	13.1	3.2	.....	.....	57211	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14.7	3.1	.....	.....
	No. 1.	7.0	2.3	.....	.....	57213	Meets requirements of P. or P. Act.
	No. 2.	9.3	3.1	.....	.....
	No. 1.	13.7	4.3	.....	.....	57226	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	15.9	4.6	.....	.....
	No. 1.	5.0	2.9	.....	.....	57230	" "
	No. 2.	5.1	2.8	.....	.....
One wafer, repeated in an hour if not relieved. Not more than 2 wafers should be taken in succession.	No. 1.	7.5	2.8	.....	.....	57246	" "
	No. 2.	8.9	3.4	.....	.....
One tablet, repeated in an hour if relief is not obtained. Not more than 2 tablets should be taken in succession.	No. 1.	4.0	None.	None.	None	57249	Meets requirements of P. or P. Act.
	No. 2.	5.1	"	"	"		
	No. 1.	10.1	3.8	..	.....	57250	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.8	3.5	.....	.....

J. C. ROULEAU, INSPECTOR.

	No. 1.	9.4	3.4	...	...	1544	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7.4	3.5	...	...
One powder every 3 hours. However, the dose can be repeated once after one hour if not relieved. Children 1 to 2 years, divide powder in 12 parts; 3 to 4 years in 8 parts; 5 to 10 years in 4 parts; 10 to 15 years in 2 parts.	No. 1.	4.6	3.1	...	...	1545	Excess acetanilide; not declared. Sold illegally.
	No. 2.	4.7	3.1	...	...
One tablet. Repeat in $\frac{1}{2}$ an hour if not cured by one tablet.	No. 1.	5.9	0.9	2.3	...	*1546	Meets requirements of P. or P. Act.
	No. 2.	5.7	0.9	2.0	...		

* Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vender.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF EASTERN								
1913								
Mar. 13	Headache Wafers.	1547	Solomon G. Had-aya, Scotts.	1 box.	15	Red Cross Phar. Co., Quebec.		This sample is described like No. 37173.
" 19	Headache Powders.	1548	F. T. Hewit, Sherbrooke.	1 "	25	Nyal, New York		This sample is described like No. 46958.
" 19	"	1549	Pharmacie Beique, Magog.	1 doz.	25	Vendor...		Powders were loose wrapped in paper.
April 17	Headache Wafers.	1550	A. J. Boisvert, Plessisville.	1 box.	25	J. A. Gauvin, Montreal.		"Gauvins" recommended by the medical profession for the cure of headache, neuralgia, grippe, cold in the head and nervousness. Stamp on package.
" 17	"	1551	E. Anthier & Cie, Roxton Falls.	1 "	20	"		This sample is described like No. 1550, Reg. No. 704, P. or P. Act.
" 23	Headache Powders.	1552	W. D. Bradford, Granby.	1 "	25	J. W. Lamb-ley, Montreal.		"Lamblys" Headache Cure, warranted to cure headache, toothache, neuralgia, earache, pain in the back, bowels or stomach, stimulates the heart instead of depressing it. Can be taken with perfect safety. Contains acetanilide. No. 528, P. or P. Act.
" 23	"	1553	Dr. McGowan, Knowlton.	1 "	25	The Toronto Phar. Co., Toronto.		This sample is described like No. 46961. Stamp on package.
DISTRICT OF MONTREAL—								
Feb. 24	Headache Powders.	51211	C. A. Champagne, 717 Ontario St., Maisonneuve, P.Q.	1 box.	25	The Toronto Phar. Co., Toronto.		This sample is described like No. 46961.
" 24	"	51212	"	1 "	25	New York and London Drug Co.		This sample is described like No. 46958.
" 24	"	51213	Dr. D. Chouinard, Adams St., Maisonneuve, P.Q.	1 "	20	"		This sample is described like No. No. 1545.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
	No. 1.	11.0	3.3			1547	Actanilide is declared as phenylacetanilide; Otherwise meet requirements of P. or P. Act.
	No. 2.	11.7	3.6				
	No. 1.	3.8	2.4			1548	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	4.3	2.8				
One wafer, repeat dose in 20 minutes if not relieved. In severe cases such as la grippe, take 1 wafer every 3 hours.	No. 1.	3.1	0.8	0.6		*1549	Meets requirements of P. or P. Act.
	No. 2.	3.3	0.7	0.8			
	No. 1.	14.0	4.0			1550	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14.3	4.2				
	No. 1.	15.1	2.3			1551	"
	No. 2.	14.6	2.1				
One powder every hour. Children $\frac{1}{2}$ to $\frac{1}{4}$ of above quantity.	No. 1.	9.9	7.7			1552	"
	No. 2.	10.1	7.9				
	No. 1.	13.3	8.8			1553	"
	No. 2.	13.6	9.2				

J. J. COSTIGAN, INSPECTOR.

	No. 1.	11.3	2.3			51211	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	11.8	2.4				
	No. 1.	2.8	1.5			51212	"
	No. 2.	3.5	1.7				
	No. 1.	5.8	3.5			51213	Excess acetanilide not declared Sold illegally
	No. 2.	6.3	4.2				

*Approximately.

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BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1913.								
Mar. 27	Headache Powders.	51214	A. Lebeau, 465 St. James St., Montreal.	1 box.	25	Vendor.....		"Lebeaus." For sick or nervous headache, neuralgia, rheumatic and menstrual pains, $4\frac{1}{2}$ grs. acetanilide in each powder.
Feb. 27.	"	51215	" "	1 "	50	Orangeine Chemical Wks., Windsor, Ont.		"Orangeine." A safe and sure pain allayer. Bracer Cure. Promptly relieves. Soothes, Strengthens, Rebuilds and Permanently benefits. Acetanilide $2\frac{1}{4}$ grs. Reg. No. 37 P. or P. Act.
" 27	"	51216	A. M. Brunette, 1048 St. James St., Montreal.	1 "	50	Vendor		"Brunette's." Acetanilide 1 oz. in 100 powders.
Mar. 3	"	51217	A. D. Mann, 190 Villeneuve St., W., Montreal.	1 "	25	Hoffman Drug Co., Internat. Bridge, Ont.		"Hoffman's Harmless." A cure for all headaches. Acetanilide declared. Reg. No. 947 P. or P. Act.
" 3	"	51218	" "	1 "	25	J. W. Lambly, Montreal.		This sample is described like No. 1552.
" 4	Headache Wafers.	51219	O. T. Pinck, 348 Notre Dame St. W., Montreal.	1 "	25	Dr. Fred J. Demers, Montreal.		Cachets du Dr. Fred Demers. A sure cure for headache, nervous or bilious. Acetanilide and Phenacetin acknowledged. Reg. No. 11 P. or P. Act.
" 4	"	51220	J. Pigeon, 412 Notre Dame St., W., Montreal.	1 "	25	The Zymole Co., Ltd., New York.		This sample is described like No. 50598.

DISTRICT OF VALLEYFIELD—

Mar. 19	Headache Wafers.	51226	D. J. McIntosh, Vankleek Hill.	1 doz.	25	Toronto Phar. Co., Toronto.		Headache Powders for the immediate relief of headache and neuralgia. Prepared by McIntosh's Drug Store, Vankleek Hill. Prepared by Toronto Phar. Co., Toronto. Reg. No. 95 P. or P. Act.
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SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grams.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
One powder, repeated in 20 to 30 minutes if necessary. For headache, one powder every 2 or 3 hours as required, for neuralgia, rheumatic pains, &c. For sleeplessness, one powder retiring, repeated in an hour if sleep is not produced. For children reduce dose according to age.	No. 1.	9.5	3.6	.....	.....	51214	Acetanilide declared. Meets requirements of P. of R. Act.
	No. 2.	11.8	4.0	.....	.....
One powder. Repeated in $\frac{1}{2}$ or $\frac{1}{4}$ an hour if necessary, after which a powder every 4 or 5 hours will suffice.	No. 1.	4.6	2.4	.....	.....	51215	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	5.4	2.8	.....	.....
One powder. Repeated in an hour if not relieved.	No. 1.	17.6	3.9	.....	.....	51216	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	16.1	3.6	.....	.....
One powder. Repeated in half an hour if not relieved.	No. 1.	12.1	5.4	.....	.....	51217	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	11.2	5.0	.....	.....
.....	No. 1.	9.7	7.8	.....	.....	51218	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9.7	7.7	.....	.....
One wafer. Repeated in half an hour if not relieved. Not more than 2 wafers should be taken in succession.	No. 1.	6.2	1.8	3.2	.....	*51219	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7.1	1.9	3.3	.....	
.....	No. 1.	8.9	4.2	.....	.....	51220	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7.5	3.5	.....	.....

J. J. COSTIGAN, ACTING INSPECTOR.

One powder. Repeat in half an hour if necessary.	No. 1.	9.9	2.0	51326	Meets requirements of P. or P Act.
	No. 2.	10.6	2.1		

* Approximately.

5 GEORGE V., A. 1915

BULLETIN No. 268—

Date of Collection	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VALLEYFIELD—								
1913.								
Mar. 20	Headache Wafers.	51327	P. T. McLaurin, Vankleek Hill.	1 box.	25	Lyman's, Ltd., Montreal.		"Lyman's." A positive cure for sick and bilious headache and neuralgia. Reg. No. 213 P. or P. Act.
" 11	Headache Powders.	51328	H. Elvidge, Vankleek Hill.	1 "	25	United Drug Co., Toronto.		This sample is described like No. 46964.
" 20	Headache Wafers.	51329	W. A. McRea, Hawkesbury.	1 "	25	Toronto Phar. Co., Toronto.		"Perfect." Reg. No. 95 P. or P. Act.
" 19	Headache Powders.	51330	G. E. McGibbon, Hawkesbury.	1 box.	25	New York & London Drug Co.		This sample is described like No. 46958.
" 20	Headache Wafers.	51331	" "	1 "	25			This sample is described like No. 50598.
" 24	Headache Powders.	51332	John McLeister, Alexandria.	1 doz.	30			This sample is described like No. 46958.
" 24	Headache Wafers.	51333	" "	1 box.	25			"Nyal's" Headache Cure. Also of great value in neuralgia, lagrippe, rheumatism and all allied pain. Acetanilide 3 grains in each wafer. New York and London Drug Co., N.Y.
" 24	Headache Powders.	51334	Brock, Ostrom & Son, Alexandria.	1 "	25	T. Milburn Co., Ltd., Toronto.		This sample is described like No. 50592.
" 24	"	51335	" "	1 "	25			This sample is described like No. 1545.

DISTRICT OF OTTAWA—

Feb. 28	Headache Powders.	51740	Hull Medical Hall, Hull, P.Q.	1 box.	25	Vendor....		"Antalgine." Anti-Pain, reduces temperature, relieves pain with celerity and certainty and has no evil after effect. Anodyne and sedative in neuralgia sciatica and chronic and acute rheumatism. A reliable antipyretic
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SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
One wafer. Repeated in half or one hour if relief be not obtained.	No. 1. No. 2.	4.9 4.0	...	3.3 2.4	...	51327	Meets requirements of P. or P. Act.
.....	No. 1. No. 2.	5.9 5.6	...	3.8 3.6	...	51328	Phenacetin declared as acetophenetidin. Otherwise meets requirements of P. or P. Act.
One wafer. Repeated in an hour if relief is not obtained. A seidlitz powder frequently gives valuable assistance.	No. 1. No. 2.	12.3 10.4	2.6 2.1	...	...	51329	Meets requirements of P. or P. Act.
.....	No. 1. No. 2.	7.4 7.5	3.8 4.0	...	...	51330	Acetanilide declared. Meets requirements of P. or P. Act.
.....	No. 1. No. 2.	6.5 7.0	3.2 3.3	...	...	51331	" "
.....	No. 1. No. 2.	6.9 7.3	3.2 3.4	...	...	51332	" "
One wafer, repeat in an hour if relief is not obtained. Not more than 2 in all should be taken.	No. 1. No. 2.	8.2 8.6	3.9 4.0	...	...	51333	" "
.....	No. 1. No. 2.	14.5 16.1	6.5 7.5	...	...	51334	" "
.....	No. 1. No. 2.	4.1 4.8	2.7 2.7	...	...	51335	Excess acetanilide, not declared. Sold illegally.

J. A. RICKEY, INSPECTOR.

One powder for la grippe, repeated every four hours, for headache, repeated after an hour if not relieved.	No. 1. No. 1.	10.6 8.8	2.0 1.6	4.7 4.1	*51740	Acetanilide declared. Meets requirements of P. or P. Act.
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*Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1913.								
Feb. 28	Headache Powders.	51741	J. H. Edwards, Carleton Place.	1 box.	25	Northrop & Lyman Co., Ltd., Toronto.	N. C. Polson & Co., Kingston.	and febrifuge, efficient in nervous headache and pains due to irregular menstruations. Phenacetine 5 grs., acetanilide 2 grs. Reg. No. 589. P. or P. Act.
" 28	Headache Tablets.	51742	M. W. Grace, Arnprior.	1 "	25	Standard Mdel. Co., Smiths Falls.	Mfrs.	Millers' Headache and Grip. A quick cure for headache and neuralgia pains or pains from any cause. Reg. No. 40. P. or P. Act.
" 27	Headache Powders.	51743	Motard & Cie, St. Patrick St., Ottawa.	1 "	25	.....	.....	"Dows." Give prompt relief in headaches and hysterical paroxysms. Soothes the nerves and produces sleep.
Feb. 27	Headache Wafers.	51744	J. Mundy, St. Patrick St., Ottawa.	1 "	25	Dr. Fred. J. Demers, Montreal.	Mfrs.	This sample is described like No. 1545.
" 28	"	51745	H. Therien, Hull, P.Q.	1 "	25	Dunlop Phar. Co., Montreal.	Mfrs.	This sample is described like No. 37175.
" 28	"	51746	"	1 "	25	Vendor . . . . .	.....	"Therien's." A safe and positive relief for all forms of nervous headache or neuralgia. Acetanilide 2 grains in each wafer.
" 28	Headache Pills.	51747	"	1 "	25	Toronto Phar. Co., Toronto.	Mfrs.	"Neuralgine." A specific for the cure of headache, neuralgia, nervousness, mental strain, sleeplessness, worry, anxiety and all forms of brain fatigue. Reg. No. 95. P. or P. Act.
" 10	Headache Wafers.	51748	P. Daoust et Cie, Hull, P.Q.	1 "	15	Franco Coloniale Medicale Co., Montreal.	"	"Baridons" Improved, for the cure of headache in 10 minutes. Reg. No. 15. P. or P. Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
			grs.	grs.	grs.		
One powder for adults. 5 years $\frac{1}{2}$ of a powder, 8 years $\frac{3}{4}$ a powder, 12 years $\frac{1}{2}$ of a powder, repeated in one hour if necessary, if after 4 hours pain is not all gone repeat.	No. 1.	5.3	None.	None.	None.	51741	Meets requirements of P. or P. Act.
	No. 2.	5.1	"	"	"		
One tablet. Repeated in $\frac{1}{2}$ an hour if not relieved, and if necessary in one hour but it is not advisable to take more than 3 tablets in succession.	No. 1.	6.7	1.9	.....	.....	51742	" "
	No. 2.	7.0	2.0	.....	.....
.....	No. 1.	6.0	3.7	.....	.....	51743	Excess acetanilide, not declared. Sold illegally.
	No. 2.	5.1	3.3	.....	.....
.....	No. 1.	7.5	2.5	3.5	.....	*51744	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	6.4	1.9	3.1	.....	
.....	No. 1.	8.3	2.9	.....	.....	51745	" "
	No. 2.	8.2	3.0	.....	.....
One wafer, repeat in an hour if necessary.	No. 1.	10.7	2.2	.....	.....	51746	" "
	No. 2.	10.1	2.1	.....	.....
One pill every hour until full relief is obtained, then cease taking.	No. 1.	6.1	1.9	.....	.....	51747	Meets requirements of P. or P. Act.
	No. 2.	6.1	1.5	.....	.....
One wafer, repeated in an hour if necessary.	No. 1.	3.7	.....	2.4	.....	51748	" "
	No. 2.	6.1	.....	4.0	.....	

*Approximately.

5 GEORGE V., A. 1915

BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the label.
				Quantity.	Cost.	Manufacturer.	Furnisher.	
1913.								
Feb. 10	Headache Wafers.	51749	P. Daoust et Cie, Hull, P. Q.	1 box.	15	J. A. E. Gauvin, Montreal.	...	This sample is described like No. 1550. Acetaminide acknowledged. Reg. No. 704. P. or P. Act.

DISTRICT OF OTTAWA—

DISTRICT OF KINGSTON—

Mar. 10	Headache Powders.	45780	T. B. Wallace, Belleville.	1 box.	25	Toronto Phar. Co., Toronto.		This sample is described like No. 46961.
" 10	"	45781	F. L. Hooper, Nanawake.	1 "	25	Nyals, Windsor.		This sample is described like No. 46958.
" 10	Headache Wafers.	45782	D. B. Bleeker, Belleville.	1 "	25	Nat Drug Co., Toronto.		Wafers were loose wrapped in paper.
" 10	Headache Powders.	45783	J. S. McKeown, Belleville.	3 "	75	United Drug Co., Toronto.		This sample is described like No. 46964.
" 10	"	45784	Belleville Pharmacy, Belleville.	1 "	25	Nyals, Windsor.		This sample is described like No. 46958.
Feb. 20	Headache Wafers.	53087	W. H. Medley, Kingston.	1 "	25	Stearns, New York		Wafers were loose wrapped in paper.
" 21	Headache Powders.	53088	T. H. Sargent, Kingston.	1 "	25	Millers, Chatham.		Powders were loose wrapped in paper.
" 21	"	53089	C. S. Prouse, Kingston.	1 "	25	Vendor		Powders were loose, wrapped in paper.
" 21	"	53090	A. P. Chown, Kingston.	1 "	25	"		" "
" 21	"	53091	Geo. Mahood, Kingston.	1 "	25	United Drug Co., Toronto.		This sample is described like No. 46964.
" 24	"	53093	Belleville Pharmacy, Belleville.	1 "	25	Nyals Windsor.		This sample is described like No. 46958.
" 25	"	53094	W. H. Semple, Cobourg.	1 "	25	Ont. Chemists Co., Toronto.		The Chemists. Reg. No. 90 P. or F. Act.
" 25	"	53095	W. J. B. Davison, Port Hope.	1 "	25	Toro. Phar. Co., Toronto.		This sample is described like No. 46961.
" 26	"	53096	Warne Drug Co., Ltd., Peterboro.	1 "	25	"		This sample is described like No. 46961.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grams.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
	No. 1.	15.6	3.7	.....	.....	51749	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14.2	3.4	.....	.....	.....	.....
	No. 1.	9.7	1.9	.....	.....	45780	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9.1	1.8	.....	.....	.....	.....
	No. 1.	3.6	2.3	.....	.....	45781	" "
	No. 2.	9.5	3.0	.....	.....	.....	.....
	No. 1.	4.3	None.	None.	None.	45782	Meets requirements of P. or P. Act.
	No. 2.	4.5	"	"	"	.....	.....
	No. 1.	7.8	.....	5.1	.....	45783	Phenacetin declared as acet-phenetidin; otherwise meets requirements of P. or P. Act.
	No. 2.	7.5	.....	5.0	.....	.....	.....
	No. 1.	7.3	3.3	.....	.....	45784	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7.8	3.6	.....	.....	.....	.....
	No. 1.	7.3	3.5	.....	.....	53087	" "
	No. 2.	7.0	3.4	.....	.....	.....	.....
	No. 1.	7.1	None.	None.	None.	53088	Meets requirements of P. or P. Act.
	No. 2.	5.7	"	"	"	.....	.....
	No. 1.	8.1	.....	3.0	.....	53089	Meets requirements of P. or P. Act.
	No. 2.	8.0	.....	3.1	.....	.....	.....
	No. 1.	5.7	1.3	2.3	.....	*53090	Meets requirements of P. or P. Act.
	No. 2.	6.1	1.8	1.9	.....	.....	.....
	No. 1.	5.8	.....	3.9	.....	53091	Meets requirements of P. or P. Act.
	No. 2.	8.1	.....	5.3	.....	.....	.....
	No. 1.	8.1	3.7	.....	.....	53093	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	6.8	3.1	.....	.....	.....	.....
	No. 1.	15.7	5.4	.....	.....	53094	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	13.8	4.8	.....	.....	.....	.....
	No. 1.	11.4	2.3	.....	.....	53095	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	12.5	2.5	.....	.....	.....	.....
	No. 1.	9.5	2.0	.....	.....	53096	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	10.4	2.1	.....	.....	.....	.....

Approximately.

5 GEORGE V., A. 1915

BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1913.								
Feb. 28	Headache Powders	57041	J. L. Nornabell, 465 Bloor st. west, Toronto.	1 doz.	25	The Canadian Phar. Assoc. Toronto.	"Standard" a simple harmless and almost instantaneous relief for headache from any cause. Acetanilide acknowledged. Reg. No. 90 P. or P. Act.	
Mar. 4	Headache Wafers.	57042	Owl Drug Co., Ltd., 990 Bathurst st., Toronto.	1 "	25	The Nat. Drug & Chem. Co., Ltd., Toronto.	Na-Drn-Co. No. 591 P. or P. Act.	
" 4	Headache Tablets.	57043	D. Campbell, 161 Harbord st., Toronto.	1 box.	20	Dr. Shoop.	"Dr. Shoop's" Prompt relief for headache, neuralgia, toothache, earache, nervousness and sleeplessness. Contain 2 grs. acetphenetidine.	
" 5	Headache Powders	57044	Miss S. E. Gallagher, Broadview & Danforth ave., Toronto.	1 doz.	25	Vendor	"Dr. Steadman's," also labelled. Dr. Carroll's contain acetphenetidine and acetanilide.	
" 5	"	57045	The Carter Drug Co., 697 Queen st. west, Toronto.	1 "	25	"	"Carter's" specific for sour stomach, cure nervous or sick headache, arising from neuralgia, fatigue, over eating, alcohol or tobacco habit, acetanilide acknowledged. Reg. No. 442 P. or P. Act.	
Mar. 6	"	57046	J. A. Lunan, 194 Queen St. East, Toronto.	1 "	25	The J. F. Taylor Phar. Co., Ltd., Toronto.	"Victoria." A safe and sure remedy for the cure of headache and neuralgia. Reg. No. 575. P. or P. Act.	
" 6	"	57047	G. Tambllyn, Ltd., 2171 Queen St. East, Toronto.	1 "	25	Vendors	"Tambllyn's." Cures headache, neuralgia, toothache and sleeplessness. Reg. No. 1021. P. or P. Act.	
" 10	"	57048	Estate of J. S. Hanson Drug Store, 444 Spadina Ave., Toronto.	1 "	25	"	"Fraser's." Safe, sure and certain to relieve. Reg. No. 519. P. or P. Act.	
" 10	"	57049	H. M. Kipp, 168 McCaul St., Toronto.	1 "	25	Vendor.	"Imperial." Reg. No. 649. P. or P. Act.	

SESSIONAL PAPER No. 14
HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine Phenazone.	
					No. of Sample.	
One powder repeated in $\frac{1}{2}$ an hour if required.	No. 1. 12.2 No. 2. 8.8	4.8 3.6	....	....	57041	Acetanilide declared. Meets requirements of P. or P. Act.
One wafer three times a day, the dose may be repeated in $\frac{1}{2}$ an hour if necessary.	No. 1. 4.6 No. 2. 4.6	None. "	None. "	None. "	57042	Meets requirements of P. or P. Act.
One tablet repeated in 20 minutes if not entirely relieved.	No. 1. 20.2 No. 2. 20.3	.... ....	1.2 1.3	....	57043	Meets requirements of P. or P. Act.
One powder repeated in an hour if required. Do not repeat for 3 hours.	No. 1. 7.1 No. 2. 7.2	2.7 2.7	3.4 3.5	....	*57044	Acetanilide declared. Meets requirements of P. or P. Act.
One powder repeated in $\frac{1}{2}$ an hour if not relieved. Children under 12 years $\frac{1}{2}$ of a powder.	No. 1. 16.9 No. 2. 20.5	4.1 5.6	....	....	57045	Acetanilide declared. Meets requirements of P. or P. Act.
One powder. Repeat in $\frac{1}{2}$ an hour if necessary. Children $\frac{1}{2}$ or part of a powder accord- ing to age.	No. 1. 7.9 No. 2. 8.3	1.8 2.1	....	....	57046	Meets requirements of P. or P. Act.
One powder, repeated in an hour if necessary.	No. 1. 7.4 No. 2. 6.8	.... ....	2.2 2.6	1.2 1.2	57047	" "
One powder, repeated in an hour, and again in 2 hours.	No. 1. 8.8 No. 2. 9.3	.... ....	5.8 6.1	....	57048	Slight excess of phenacetin, without declaration.
One powder, repeated in $\frac{1}{2}$ an hour if not relieved. Do not repeat needlessly.	No. 1. 9.8 No. 2. 10.3	2.0 2.2	....	....	57049	Meets requirements of P. or P. Act.

* Approximately.

5 GEORGE V., A. 1915

BULLETIN NO. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1913.								
Mar. 12	Headache Powders.	57050	W. A. Ellis, 148 Avenue Road, Toronto.	1 doz.	25	Vendor.....		"Red Seal." Speedy and safe in the relief cure of headache, neuralgia and lagrippe. Reg. No. 1215. P. or P. Act.
DISTRICT OF HAMILTON—								
April 8	Headache Powders.	57141	M. H. Robertson, Market and Dalhousie Sts., Brantford.	1 doz.	25	Vendor.....		"Robertson's." Reg. No. 1012. P. or P. Act.
" 8	"	57142	C. A. C. Cameron, Colborne St., Brantford.	1 "	25	"		"Ewens." A speedy and safe remedy. Stamp on package.
" 10	Headache Wafers.	57143	Apps Ltd., Paris.	1½ "	25	Vendors.....		"Apps" Saffron. A speedy, certain and safe remedy for headaches, also relieves in neuralgia. Reg. No. 2209. P. or P. Act.
" 10	Headache Powders.	57144	J. S. Armitage, Paris.	1 doz.	25	Vendor		"Armitage's." They cure instantly sick or nervous headache. A positive relief in neuralgia.
" 14	"	57145	W. A. Coleberry, Dunnville.	1 "	25	"		"Dr. Michener's." A prompt and safe remedy for nervous and sick headache, neuralgia and lagrippe. Reg. No. 305. P. or P. Act.
" 14	"	57146	R. A. Harrison, Dunnville.	1 "	25	"		Powders were loose-wrapped in paper.
April 17	Headache Tablets.	57147	Wm. Erskine, James Street, St. Catharines.	1 box.	25	Vendor		"Rheumatic Tablets." Positively cures rheumatism, neuralgia, toothache, lumbago, sciatica, headaches. "Erskine's Nox a Pain Tablets" relieve all febrile conditions, ovarian and uterine, and acts as a permanent cure.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.		
H. J. DAGER, INSPECTOR.							
One powder, repeated in $\frac{1}{2}$ an hour if not relieved. Do not repeat for 4 hours.	No. 1.	12.6	...	3.5	...	57050	Meets requirements of P. or P. Act.
	No. 2.	11.9	...	3.3	...		
H. J. DAGER, ACTING INSPECTOR.							
...	No. 1.	6.3	...	2.7	...	57141	Meets requirements of P. or P. Act.
	No. 2.	6.8	...	3.0	...		
One powder, repeated in $\frac{1}{2}$ an hour if necessary, then do not repeat for at least 4 hours.	No. 1.	10.3	1.4	1.6	...	*57142	" "
	No. 2.	12.7	1.8	1.9	...		
...	No. 1.	5.1	1.5	...	...	57143	" "
	No. 2.	6.6	2.8	...	...
One powder, repeated in an hour if necessary.	No. 1.	12.0	8.0	...	...	57144	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.6	5.4	...	...
...	No. 1.	6.5	2.5	...	...	57145	Meets requirements of P. or P. Act.
	No. 2.	7.4	2.4	...	...
One powder, repeated in $\frac{1}{2}$ an hour if necessary.	No. 1.	4.5	...	1.5	...	57146	" "
	No. 2.	6.0	...	2.0	...		
...	No. 1.	6.2	2.2	...	...	57147	Meets requirements of P. or P. Act.
	" 2.	6.1	2.1	...	...

* Approximately.

5 GEORGE V., A. 1915
BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON—

1913.								
April 17	Headache Powders.	57148	Ervin C. McNally, 60 Erie Ave., Niagara Falls.	1 box.	35	Vendor		No registration No. on box or powders.
" 19	"	57149	A. E. Drewery, 108 James st. south, Hamilton.	1 doz.	25	Toronto Phar. Co., Toronto.		This sample is described like No. 46963.
" 23	"	57150	W. B. Smith, 245 King street east, Hamilton.	1 "	25	Vendor		"Smith's" Acetanilide, 5 grains.

DISTRICT OF WINDSOR—

Mar.	4	Headache Powders.	47957	S. F. Parke & Co., Chatham.	1 pkge	25	Nyals.	"Nyal's."
"	4	"	47960	J. G. Clark, Chatham.	1 "	25	Druggists Corporation, Toronto.	"D.C." contains Phenyl-acetamide and other effective pain relieving remedies. Reg. No. 642 P. or P. Act.
"	4	"	47962	Powell Davis Co., Chatham.	1 "	25	Nyals, Windsor.	"Nyal's."
"	4	"	47963	A. J. McCall & Co., Chatham.	1 "	25	Hoffman Drug Co., Bridgeburg.	This sample is described like No. 51217.
"	5	"	47965	W. A. Pond, Windsor.	1 "	25	Toronto Phar. Co., Toronto.	"Perfect." Reg. No. 1276 P. or P. Act.
"	5	"	47966	F. H. Laing, Windsor.	1 "	25	Vendor	"Laing's." Reg. No. 959 P. or P. Act.
"	5	"	47968	Gardner Pickard Drug Co., Windsor.	1 "	25	Vendors	"Gardner." A positive cure for headaches of all origins. Reg. No. 2143 P. or P. Act.
"	5	"	47972	A. J. Wilkinson, Windsor.	1 "	25	Vendor	Reg. No. 851 P. or P. Act.
"	6	"	47978	S. H. Sadler, Essex	1 "	25	Toronto Phar. Co., Toronto.	"Perfect."
"	6	"	47984	Theo. B. S. Tweedale.	1 "	25	Nyals, New York and London.	"Nyal's."

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
	Powder.	Weight of Powder in Grains.	Acetanilide—Antifebrin.	Phenacetin.	Antipyrine—Phenazone.	

H. J. DAGER, ACTING INSPECTOR.

One powder every three hours until headache ceases.	No. 1.	3.4	...	3.3	57148 Meets requirements of P. or P. Act.
	No. 2.	4.2	...	4.1	
.....	No. 1.	9.7	2.0	...	57149 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9.7	2.0	...	
One powder, and repeat in half an hour if not relieved.	No. 1.	8.3	5.2	...	57150 " "
	No. 2.	11.1	7.0	...	

J. NO. TALBOT, INSPECTOR.

.....	No. 1.	4.8	2.8	...	47957 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	3.9	2.3	...	
One powder, repeat in half an hour if not relieved. Do not repeat again for four hours.	No. 1.	9.4	3.6	...	47960 " "
	No. 2.	9.0	3.2	...	
.....	No. 1.	2.1	1.3	...	47962 Meets requirements of P. or P. Act.
	No. 2.	1.4	0.9	...	
.....	No. 1.	9.9	4.3	...	47963 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	10.3	4.6	...	
One powder, repeat in half an hour if not relieved. Do not repeat needlessly.	No. 1.	9.0	1.9	...	47965 Meets requirements of P. or P. Act.
	No. 2.	9.1	1.9	...	
One powder, repeat in an hour if necessary.	No. 1.	7.7	2.4	...	47966 " "
	No. 2.	5.8	2.1	...	
One powder, repeated in two hours if necessary. But not again for three hours.	No. 1.	5.1	3.3	...	47968 Excess of acetanilide.
	No. 2.	5.9	3.8	...	
.....	No. 1.	9.5	...	3.8	47972 Meets requirements of P. or P. Act.
	No. 2.	4.9	...	1.7	
.....	No. 1.	10.8	4.0	...	47978 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	10.8	3.7	...	
.....	No. 1.	5.3	3.3	...	47984 " "
	No. 2.	5.5	3.6	...	

5 GEORGE V., A. 1915

BULLETIN No. 268

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA—								
1913.								
Feb. 25	Headache Powders.	48835	P. T. Braund, Portage Ave., Winnipeg.	1 box.	25	Unknown	Unknown	"Nyals."
26	"	48836	Public Drug Co., Winnipeg.	1 "	25	Toronto Phar. Co., Toronto.	Mrs.	"Perfect."
26	"	48837	"	1 "	25	The Drug-gists Corporation of Canada, Toronto.	Unknown	This sample is described like No. 47960.
26	"	48838	The Gordon Mitchell Drug Co., Winnipeg.	1 "	25	Knapp & Co., Berlin, Ger.	.....	"German." Each powder contains acetanilide 4 grains phenacetin 2 grains
26	"	48839	"	1 "	25	United Drug Co., Toronto.	.....	"Rexall."
27	"	48840	Colcleugh & Co., Notre Dame and Sherbrooke, Winnipeg.	1 "	25	Vendors.....	.....	"Colcleugh." Reg. No. 817. P. or P' Act.
27	"	48841	"	1 "	25	T. Milburn Co., Ltd., Toronto.	Unknown	This sample is described like No. 50592.
27	"	48842	D. W. Bradshaw, Notre Dame ave., Winnipeg.	1 "	25	"	.....	This sample is described like No. 50592.
Mar. 13	"	48843	St. John Pharmacy, Winnipeg.	1 "	25	The Toronto Phar. Co., Ltd., Winnipeg.	.....	"Perfect."
14	"	48844	W. G. Lang, Norwood Grove.	1 "	25	Vendor.....	.....	"Langs."

DISTRICT OF ROCKY MOUNTAINS—

Mar	4 Headache Tablets.	49823	Rutherford Drug Co., Nelson, B.C.	3 boxes	75	Vendors...	.....	"Rutherford's Safe." For bilious and nervous headaches.
	4 Headache Wafers.	49824	"	3 "	75	The Zymole Co., New York.	.....	This sample is described like No. 50558.
	4 Headache Powders.	49828	Poole Drug Co., Nelson, B.C.	3 "	75	United Drug Co., Toronto.	.....	This sample is described like No. 46964.
	13 Headache Wafers.	49854	J. Wylie, Hosmer, B.C.	3 "	75	Dunlop Phar. Co., Montreal.	.....	This sample is described like No. 37195.
	13 Headache Powders.	49855	"	3 "	30	New York and London Drug Co., N.Y.	.....	This sample is described like No. 46958.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.		Results of Analysis.					Remarks and Opinion of the Chief Analyst
		Powders.	Weight of Powder in Grains.	Acetanilide.	Antifebrin.	Phenacetin.	
						Antipyrine Phenazone.	No. of Sample
A. E. LARIVIÈRE, INSPECTOR.							
				grs.	grs.	grs.	
	No. 1.	4.7	3.0	.....			48835
	No. 2.	5.8	3.7	.....			Acetanilide declared. Meets requirements of P. or P. Act.
One powder, repeated in $\frac{1}{2}$ an hour if not relieved. Do not repeat needlessly.	No. 1.	9.4	1.9	.....			48836
	No. 2.	10.1	2.0	.....			Meets requirements of P. or P. Act.
	No. 1.	7.8	2.3	.....			48837
	No. 2.	9.0	2.8	.....			Acetanilide declared. Meets requirements of P. or P. Act.
	No. 1.	11.2	3.8	2.2	.....		*48838
	No. 2.	9.7	3.6	1.6	.....		"
	No. 1.	4.0	.....	2.5	.....		48839
	No. 2.	4.9	.....	3.2	.....		Meets requirements of P. or P. Act.
One powder, if not relieved in an hour another powder may be taken.	No. 1.	9.8	.....	6.2	.....		48840
	No. 2.	8.8	.....	4.8	.....		Slight excess of phenacetin in one powder.
	No. 1.	16.1	6.5	.....			48841
	No. 2.	15.6	7.1	.....			Acetanilide declared. Meets requirements of P. or P. Act.
	No. 1.	12.4	5.0	.....			48842
	No. 2.	14.2	5.6	.....			"
One powder, repeated in $\frac{1}{2}$ an hour if not relieved. Do not repeat needlessly.	No. 1.	9.5	1.9	.....			48843
	No. 2.	8.5	1.6	.....			Meets requirements of P. or P. Act.
One powder, if not relieved in an hour another powder may be taken.	No. 1.	4.3	2.2	.....			48844
	No. 2.	4.3	2.2	.....			"

THOS. PARKER, INSPECTOR.

One tablet, repeated in $\frac{1}{2}$ an hour if relief is not obtained.	No. 1.	5.5	3.2	.....			49823
	No. 2.	5.5	3.2	.....			Excess acetanilide in both powders.
	No. 1.	8.2	3.9	.....			49824
	No. 2.	8.6	4.1	.....			Acetanilide declared. Meets requirements of P. or P. Act.
	No. 1.	7.3	.....	4.8	.....		49828
	No. 2.	7.3	.....	4.7	.....		Phenacetin declared as acetphenetidin. Meets requirements of P. or P. Act.
	No. 1.	9.4	3.0	.....			49854
	No. 2.	7.9	2.9	.....			Acetanilide declared. Meets requirements of P. or P. Act.
	No. 1.	3.3	2.1	.....			49855
	No. 2.	5.5	3.4	.....			"

*Approximately.

5 GEORGE V., A. 1915

BULLETIN No. 268—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher as given by the Vendor.		Description as found on the label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ROCKY MOUNTAINS—								
1913.								
Mar. 17	Headache Wafers	49862	C. R. Macdonald, Revelstoke, B.C.	3 boxes	75	Nat. Drug & Chem. Co., Montreal.	Na-Drug Co., Reg. No. 591, P. or P. Act.	
17	Headache Tablets.	49865	Walter Bews, Revelstoke, B.C.	3 "	75	Vendors	"Perfect." Contains 5 grs. phenacetin salol 5 grains and caffeine $\frac{1}{2}$ gr.	
April 7	Headache Powders.	49868	A. Reeves, Enderby, B.C.	3 "	75	Toronto Phar. Co., Toronto.	This sample is described like No. 46973.	
7	"	49869	"	3 "	75	New York & London Drug Co., N.Y.	This sample is described like No. 46958.	
9	"	49875	E. T. Abbott, Armstrong, B.C.	3 "	75	Toronto Phar. Co., Toronto.	This sample is described like No. 46973.	

DISTRICT OF ROCKY MOUNTAINS—

DISTRICT OF VANCOUVER

Mar 6	Headache Powders.	53441	Leslie Henderson, Georgia and Granville Sts., Vancouver, B.C.	1 pkg.	25	Vendor.	"Gilmours." Reg. No. 809, P. or P. Act.	
6	"	53442	Burns & Cairns, Vancouver Block, Vancouver, B.C.	1 "	25	Druggists Corporation Co., Toronto.	This sample is described like No. 47960.	
6	Headache Wafers.	53443	Vancouver Drug Co., Richard and Hastings Sts., Vancouver, B.C.	1 "	25	Manchester Drug Co., Toronto.	"Reids." A safe and positive relief for all forms of nervous headache and neuralgia. Specific in rheumatic and menstrual pains, relieve sleeplessness. Reg. No. 1560, P. or P. Act.	
6	Headache Powders.	53444	Brown & Dawson, 439 Hastings St. West, Vancouver, B.C.	1 "	25	Toronto Phar. Co., Toronto.	This sample is described like No. 46961.	
6	Headache Wafers.	53445	McInffey Bros., 132 Hastings St. West, Vancouver, B.C.	1 "	25	The Zymole Co., New York.	This sample is described like No. 50598.	
6	Headache Powders.	53446	Owl Drug Co., Abbott and Cordova Sts., Vancouver, B.C.	1 "	35	Hoffman Drug Co., Bridgeburg, Ont.	This sample is described like No. 51217.	

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grams.	Acetanilide- Antifolin.	Phenacetin.	Antipyrine- Phenazone.		

THOS. PARKER, INSPECTOR.

		grs.	grs.	grs.		
One wafer, repeated in $\frac{1}{2}$ an hour if necessary. For rheumatic pains one wafer 3 times a day.	No. 1.	4.3	None.	None.	None.	49862 Meets requirements of P. or P. Act.
	No. 2.	4.4	"	"	"	
One tablet every 4 hours	No. 1.	10.1	.....	4.2	.....	49865 " "
	No. 2.	10.1	.....	3.9	.....
.....	No. 1.	9.1	1.9	.....	.....	49868 " "
	No. 2.	9.8	2.1	.....	.....
.....	No. 1.	4.9	3.1	.....	.....	49869 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	3.5	2.2	.....	.....
.....	No. 1.	11.5	2.4	.....	.....	49875 Meets requirements of P. or P. Act.
	No. 2.	11.4	2.4	.....	.....

J. F. POWER, INSPECTOR.

On powder, repeated in $\frac{1}{2}$ an hour if necessary.	No. 1.	10.2	.....	3.0	.....	53441 Meets requirements of P. or P. Act.
	No. 2.	9.9	.....	2.9	.....
.....	No. 1.	9.1	2.8	.....	.....	53442 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9.6	3.0	.....	.....
One wafer repeated in an hour if necessary.	No. 1.	13.4	2.7	.....	.....	53443 Meets requirements of P. or P. Act.
	No. 2.	11.8	2.4	.....	.....
.....	No. 1.	10.7	1.9	.....	.....	53444 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.1	1.6	.....	.....
.....	No. 1.	8.3	3.8	.....	.....	53445 " "
	No. 2.	8.3	3.8	.....	.....
.....	No. 1.	10.6	4.5	.....	.....	52446 " "
	No. 2.	11.3	4.9	.....	.....

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER—								
1913.								
Mar. 6	Headache Wafers.	53447	Central Drug Store, 16 Cordova St., Vancouver, B.C.	1 kg.	25	Wampole & Co., Perth, Ont.		"Gilaus." A positive cure for all forms of nervous headache and neuralgia. Acetanilide, 4½ grains, C. D. Gillanders.
" 10	Headache Powders.	53448	W. E. Adams, Pender and Burrard Sts., Vancouver, B.C.	1 "	25	"		"Almas." For sick or nervous headache, neuralgia, rheumatic and menstrual pains, sleeplessness and nervousness. Acetanilide 4½ grs.
" 10	"	53449	Manhattan Pharmacy, Robson & Thurston sts., Vancouver, B.C.	1 "	25	Gibson, Howell Co., Philadelphia, Pa.		"Gibson's" This Sample is described like No. 53448.
" 10	"	53450	Harrison's Drug Store, Robson & Granville sts., Vancouver, B.C.	1 "	25	Rexall Co., Toronto.		This sample is described like No. 46964.

DISTRICT OF VICTORIA—

Mar. 10	Headache Wafers.	53520	F. J. Williams, 613 Fort st., Victoria, B.C.	1 doz.	25	Stearns, Detroit, Mich.		This sample is described like No. 50598.
" 10	"	53522	D. E. Campbell, 650 Fort st., Victoria, B.C.	1 "	25	"		"
" 10	Headache Powders.	53524	Terry's Drug Store, 705 Fort st., Victoria, B.C.	1 "	50	H. K. Wampole, Perth, Ont.		This sample is described like No. 53448.
" 10	Headache Wafers.	53526	Geo. A. Fraser Co., 912-914 Govt. st., Victoria, B.C.	1 "	25	Stearns, Detroit, Mich.		This sample is described like No. 50598.
" 10	"	53528	Cyrus H. Bowes, 1228 Govt. st., Victoria, B.C.	1 "	25	New York & London Drug Co., New York.		This sample is described like No. 51333.
" 10	"	53530	Ivel's Pharmacy, 1415 Govt. st., Victoria, B.C.	1 "	25	Toronto Ph. Co., Toronto.		"Ivel's." This sample is described like No. 53447.
" 11	"	53532	Dean & Hiscocks, 627 Yates st., Victoria, B.C.	1 "	25	New York & London Drug Co.		This sample is described like No. 51333.
" 11	Headache Powders.	53534	John Cochran, 1300 Douglas st., Victoria, B.C.	1 "	25	"		This sample is described like No. 46958.
" 11	Headache Wafers.	53536	W. Jackson & Co., Victoria, B.C.	1 "	25	Dom. Drug Co., Hamilton.		Wafers were loose wrapped in paper. Acetanilide acknowledged.
" 11	Headache Powders.	53538	Hall & Co., 702 Yates st., Victoria, B.C.	1 "	25	New York & London Drug Co., New York.		This sample is described like No. 46958.

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HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
	Powders.	Weight of Powder in Grams.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	
One wafer repeated in 30 minutes if necessary. At least 3 hours should elapse before repeating again. A seidlitz or other mild laxative should be taken with the first dose.	No. 1.	14.6	5.5	...	...	53447 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14.9	5.8	...	...
One powder, repeated in 20 or 30 minutes if necessary. For neu- ralgia and rheumatic pains one powder every 2 or 3 hours, as required. For sleeplessness and nervousness one powder on retiring, to be repeated in one hour if sleep is not produced. For children reduce dose ac- cording to age.	No. 1.	12.4	4.7	...	...	53448 "
	No. 2.	13.8	5.2	...	...
.....	No. 1.	11.4	4.2	...	...	53449 "
	No. 2.	12.9	4.8	...	...
.....	No. 1.	7.1	...	4.8	...	53450 Phenacetin declared as acetyl- phenetidin. Otherwise meets requirements of P. or P. Act.
	No. 2.	6.9	...	4.6	...	

D. O'SULLIVAN, INSPECTOR.

.....	No. 1.	8.9	4.2	...	...	53520 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9.4	4.4	...	...
.....	No. 1.	7.3	3.5	...	...	53522 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7.9	3.7	...	...
.....	No. 1.	14.0	5.2	...	...	53524 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	11.4	4.3	...	...
.....	No. 1.	4.9	2.4	...	...	53526 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	5.5	2.6	...	...
.....	No. 1.	8.5	4.0	...	...	53528 Acetanilide declared. Meet requirements of P. or P. Act.
	No. 2.	8.4	4.0	...	...
.....	No. 1.	15.5	5.8	...	...	53530 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	13.1	4.7	...	...
.....	No. 1.	8.1	3.9	...	...	53532 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.5	4.0	...	...
.....	No. 1.	6.9	3.2	...	...	53534 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	6.1	3.0	...	...
.....	No. 1.	3.9	3.2	...	...	53536 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	5.1	3.9	...	...
.....	No. 1.	7.9	3.7	...	...	53538 Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8.2	3.9	...	...

APPENDIX L.

BULLETIN No. 269—DRIED AND PACKAGED FRUIT.

OTTAWA, November 5, 1915.

WM. HENSWORTH Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report dealing with 176 samples collected by our inspectors during June, July and August of this year as Dried and Packaged Fruit. The collection is made up as follows:—

	Samples.
Raisins.	53
Currants.	26
Prunes.	33
Figs.	32
Dates.	10
Apples.	11
Apricots.	6
Peaches.	3
Pears.	1
Canned apples by mistake.	1
Total.	176

Our last systematic inspection of Dried and Packaged Fruit was made in April and May of 1910, and is published as Bulletin No. 212.

That report dealt more particularly with Packaged Fruit; and most of the samples were sold in Cartons ostensibly holding one pound weight of fruit; and it was found that a very large proportion of the samples obtained approximated that weight.

In the present case 83 samples were obtained from broken bulk packages; so that only 92 samples of Packaged Fruit are reported.

Packaged figs are, as a rule, put up in small cartons or boxes, containing from 6 to 12 ounces net weight.

Other packaged fruits are usually put up in nominal one pound cartons; and the great majority of these packages examined, are found to contain about 15 ounces net.

Samples weighing less than 15 ounces are as follows:—

	Samples.
Currants.	7
Raisins.	7
Dates.	9
Prunes.	1
Total.	24

The Adulteration Act does not specify short weight as constituting Adulteration; nor are manufacturers required to declare the net weight of Packaged goods. This I

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regard as a weak point and I would advise that if a package is sold by weight, any purchaser finding that short weight has been delivered may seek redress under the provisions of the weights and measures act.

The packaging of fruit, spices, and very many widely used foods, is a comparatively modern innovation. It has much to recommend it as conducing to cleanliness; but it is open to abuse; and the packages should be required to be either multiples or sub-multiples of one pound; or the actual net weight should be printed upon the package. This however cannot be enforced as there is no Act on the Statute Books establishing the weight of packages of food.

Section 3 (e) declares an article of food to be adulterated, "If it consists wholly or in part of a diseased or decomposed or putrid or rotten animal or vegetable substance, whether manufactured or not." Under this definition I am compelled to classify the samples now reported, as below:—

	Samples.
Satisfactory.	138
Doubtful.	20
Adulterated.	17
Collected by mistake.	1
Total.	176

The adulterated samples comprise:—

	Samples.
Figs.	9
Prunes.	5
Apples.	1
Apriots.	1
Pears.	1
Total.	17

In the case of perishable food, such as fruit, it is reasonable to hold the vendor strictly responsible for the character of the article as sold by him.

It is indeed doubtful whether the packer could be expected to furnish a warranty for goods of this class, once they have left his hands. Many of the cartons are fly-specked, and discoloured in such a way as to suggest that they have been a long time in the dealer's possession, and exposed to light.

I have used the word "Doubtful" to indicate presence of unsoundness, worms or dirt, but in a degree less well marked than might be held to be required by Section 3 (e) of the Act, as constituting adulteration.

I beg to recommend publication of this report as Bulletin No. 269.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 269—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1913								
July	7 Raisins	54102	Morrison & Williams, Halifax, N.S.	3 pkgs	22	Guggenheim Co., California.	J. W. Goreham, Halifax, N.S.	
"	7 Currants	54103	"	3 "	22	Hills Bros., New York.	"	
"	8 Raisins	54104	Bauld Bros., Ltd., Halifax, N.S.	3 "	24	Kings Co. Fruit Co., Armona, Cal.	"	
"	8 Currants	54105	"	3 "	24	Hills Bros., New York.	"	"Royal Excel-sior" Brand.
"	8 Peaches	54106	A. L. Doyle & Co., Halifax, N.S.	3 "	45	Kings Co. Fruit Co., Armona, Cal.	Dunn Co., Montreal.	
"	8 Apricots	54107	"	3 "	30	"	"	
"	9 Prunes	54108	"	3 "	30	Unknown	"	
"	9 Figs	54109	Wentzells, Ltd., Halifax, N.S.	3 "	18	"	James Ballin, Agt., Halifax, N.S.	
"	11 Figs	54110	R. B. Adams & Co., Halifax, N.S.	3 "	20	"	Jno. Tobin & Co., Halifax, N.S.	
"	17 Figs	54111	Wentworth Stores, Windsor, N.S.	3 "	12	"	A. & W. Smith Co., Halifax, N.S.	

DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON—

Aug.	7 Currants	53701	J. F. Doull, New Glasgow, N.S.	2 lbs.	20		R. McGregor, New Glasgow, N.S.	
"	7 Raisins	53704	"	2 "	20	Fresno Packing Co., Fresno, Cal.		
"	7 Prunes	53706	The 2 Barkers Co., New Glasgow, N.S.	2 "	26		The 2 Barkers, Ltd., St. John, N.B.	
"	7 Figs	53707	"	2 "	26		"	
"	7 Prunes	53708	A. A. McDonald, New Glasgow, N.S.	2 "	30	J. K. Ambury Co., Fresno, Cal.		
"	7 Raisins	53709	D. C. McKay	2 "	24	"		

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DRIED AND PACKAGED FRUIT.

Results of Analysis.							Remarks and Opinion of the Chief Analyst.
Brand.	Kind of Fruit and Nature of Package.	Net weight of Con- tents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or De- cay.	Cleanliness, Nature of foreign matter, if any.	

R. J. WAUGH, INSPECTOR.

Pansy	Raisins in a cardboard carton.	15.5	Genuine.	Good and large size.	Sound	Clean.	54102 Satisfactory.
Three C	Currants in a cardboard carton.	15	"	Good, good size.	"	"	54103 "
Red Bird	Raisins in a cardboard carton.	16	"	"	"	"	54104 "
"	Currants in a cardboard carton.	15	"	"	"	"	54105 "
"	Peaches in bulk.	9	"	Good and large size.	"	"	54106 "
"	Apricot in bulk.	9	"	Good and good size.	"	"	54107 "
"	Prunes in bulk.	15.5	"	Good, med.	"	"	54108 "
"	Figs in bulk.	7.5	"	Good and good size.	"	"	54109 "
"	"	10	"	Poor, good size.	"	Dirty, worms	54110 Adulterated.
"	"	8	"	"	Sound	"	54111 "

M. DELORY, TEMPORARY INSPECTOR.

Victory	Currants in cardboard carton.	15.5	Genuine.	Good and good size.	Sound	"	53701 Satisfactory.
Red Ribbon	Raisins in cardboard carton.	16	"	"	"	"	53704 "
"	Prunes in bulk.	14	"	Good and med. size.	"	"	53706 "
"	Figs in bulk.	16	"	Good and good size.	"	Sugar mites and a few worms.	53707 Doubtful.
"	Prunes in bulk.	16	"	Good, large.	Sound	Clean.	53708 Satisfactory.
Elk	Raisins in cardboard carton.	15.5	"	Good and good size.	"	"	53709 "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON

1913.								
Aug.	7 Currants.	53710	D. C. McKay.	2 lbs.	20		R. McGregor, New Glasgow, N.S.	
"	8 Raisins.	53712	D. J. Murray.	2 "	24	The J. K. Arm- shury Co., Fresno, Cal.		
"	8 Currants.	53714	"	2 "	20		R. McGregor, New Glas- gow.	

DISTRICT OF NEW BRUNSWICK

June	20 Raisins.	50601	2 Barkers Ltd., John, N.B.	St. 3 pkgs	21	Frank Lyman Co., Fresno, Cal.		No. 9744.
"	20 Prunes.	50602	"	3 "	30	Phoenix Pack- ing Co., Cal., U.S.A.		Bulk prunes.
"	23 Currants.	50603	Walter Gilbert, John, N.B.	St. 3 "	30	The Hills Bros., New York.		"Royal Excel- sior" Brand.
"	24 Figs.	50604	W. A. Porter, John, N.B.	St. 3 "	43	Unknown	Unknown	Turkish Figs. Old stock. Would not guarantee quality.
"	24 Raisins.	50605	James Collins, John, N.B.	St. 3 "	30	Phoenix Pack- ing Co., Cal., U.S.A.		"Santa Claus" Brand.
July	8 Figs.	50606	The Yexxa Grocery Co., Fredericton, N.B.	1½ lb.	20		A. L. Goodwin, St. John, N. B.	"Fountain" Brand.
"	9 Dates.	50607	"	3 lbs.	27		"	Bulk Dates.
"	10 Currants	50608	B. Beveridge, And- over, N.B.	3 pkgs	30	Jones & Scho- field, St. John, N.B.		"Holly" Brand Cleaned Curr- ants.
"	23 Prunes.	50609	H. T. Brewster, Moncton, N.B.	3 lbs.	36		Reed & Co., Moncton.	"Cutting" Brand. California Fruit Canners Ass'n, Hanford Co., Santa Clara Prunes.
"	23 Figs.	50610	D. A. McBeath, Moncton, N.B.	3 box's	36		A. L. Goodwin, St. John, N. B.	Turkish Figs. "Mignon" Brand.

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DRIED AND PACKAGED FRUIT.

Results of Analysis.

Brand.	Kind of Fruit and Nature of Package	Net weight of contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Blue Ribbon...	Currants in cardboard carton.	16	Genuine.	Good and large size.	Sound	Clean		73710	Satisfactory.
Gold Ribbon...	Raisins in cardboard carton.	16.5	"	"	"	"		53712	"
Blue Ribbon....	Currants in cardboard carton.	17	"	Good and good size.	"	"		53714	"

Concluded.

J. C. FERGUSON, INSPECTOR.

Lymans...	Raisins, in cardboard carton.	16	Genuine.	Good, and good size.	Sound	Clean		50601	Satisfactory.
.....	Prunes, in bulk.	15	"	Good, and med. size.	"	"		50602	"
Royal...	Currants, in cardboard carton.	14	"	Good, and good size.	"	"		50603	14 oz. net. Otherwise satisfactory.
.....	Figs, in bulk	12	"	"	"	"	Sugar mites	50604	Doubtful.
Santa Claus....	Raisins, in cardboard carton.	16	"	Good, and large size.	"	Clean.		50605	Satisfactory.
.....	Figs, in bulk	8	"	Good, and good size.	....	Dirty.	Worms.	50606	Adulterated.
.....	Dates, in paper bag.	16	"	Fair, and good size.	Sound	"		50607	Doubtful.
Holly.....	Currauts, in cardboard carton.	14	"	Good, and good size.	"	Clean.		50608	14 oz. net. Otherwise satisfactory.
.....	Prunes, in bulk.	16	"	Good, and small size.	"	"		50609	Satisfactory.
Mignon.....	Figs, in paper, in wooden box.	6	"	Fair, and good size.	Decayed.	"	Large number of mites	50610	Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC—								
1913.								
June 17	Currents	37050	Alfred Marcotte, Charlebourg.	3box's	30	Patras-Pyrglos Amalico & Calamatas, Greece.	Bedard & Frère.	
" 17	Raisins	37051	"	3 "	30	Arakelian Bros Co., Fresno, Cal.	"	
" 18	Currents	37052	P. Legare, Charlebourg.	3 "	30	Patras-Pyrglos Amalico & Calamatas, Greece.	N. Turcot & Cie.	
" 18	Raisins	37053	"	3 "	30	Rosenberg Bros. & Co., Cal.	"	
" 18	"	37054	T. Goudreault, Limoilon.	3 "	36	Griffin & Kelly, Cal.	J. B. E. Letellier.	
" 18	Currents	37055	"	3 "	36	A. T. Zini, Patras, Greece.	"	
" 19	Apples	37056	Louis Verreault, Limoilon.	1½ lb.	23	Unknown	Turcotte & Frère.	
" 19	"	37057	A. Lachance, Limoilon.	1½ "	23	"	Quebec Preserving Co.	
" 19	Raisins	37058	"	3box's	45	Madison & Bonner, Cal.	"	
" 19	Currents	37059	"	3 "	45	"	"	"Blue Bell" Brand.
DISTRICT OF EAST QUEBEC—								
June 24	Prunes	53325	Dame J. A. Poliquin, Montmagny	3box's	45	Rosenberg Bros. & Co., Cal.	"	
" 24	"	53329	A. N. Normand, Montmagny.	3 lb.	45	Cal. Fruit Co., Hanford, Cal.	J. B. Reneand, Quebec.	
" 24	Figs.	53330	"	3 "	30	"	"	
" 24	Prunes	53333	A. Bouli, Montmagny.	3 "	36	"	Griffin & Skelly, Quebec.	
" 24	"	53334	Ad. Caron, Montmagny.	3 "	36	"	"	
July 2	Figs.	53343	R. Lesperance, Montmagny.	3box's	30	"	White Steele Turner, Quebec.	
" 3	Prunes	53345	"	3 lbs.	39	"	"	
" 3	Figs.	53352	F. L. Caron, Cap St. Ignace.	3 "	36	Unknown	Unknown	
" 4	"	53359	F. Lavale, St. Jean Port Joli.	3 "	45	"	"	

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DRIED AND PACKAGED FRUIT.

Results of Analysis.									
Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.									
Primrose	Currants, in cardboard carton.	16	Genuine.	Good, and good size.	Sound	Clean.		37050	Satisfactory.
Heart of California.	Raisins, in cardboard carton.	16	"	"	"	"		37051	"
Narcissus. . . .	Currants, in cardboard carton.	16	"	"	"	"		37052	"
Aztec	Raisins, in cardboard carton.	15.5	"	Good, and med. size.	"	"		37053	"
Griffin.	"	16	"	Good, and good size.	"	"		37054	"
Fairy.	Currants, in cardboard carton.	15	"	Good, and large size.	"	"		37055	"
.....	Apples, in bulk.	9	"	Good, and good size.	"	"		37056	"
.....	"	8	"	"	"	"		37057	"
Blue Bell.	Raisins, in cardboard carton.	12	"	"	"	"		37058	12 oz. net. Otherwise satisfactory.
"	Currants, in cardboard carton.	11	"	"	"	"		37059	11 oz. net. Otherwise satisfactory.

ALPHONSE PELLETIER, INSPECTOR.

....	Prunes, in cardboard carton.	12	Genu- ine.	Good, and small size.	Sound	Clean.		53325 12 oz. net. Other- wise satisfactory.
	Prunes, in bulk.	16	"	Good, and med. size.	"	"		53329 Satisfactory.
.....	Figs, in wooden box.	10	"	Good, good size and soft.	"	"		53330 "
	Prunes, in bulk.	16	"	Dried, and large size.	"	Dirty.		53333 Doubtful.
	"	16	"	Dried, and small size.	"	Clean		53334 Satisfactory.
	Figs, in wooden box.	9	"	Good, good size and soft.	"	"		53343 "
	Prunes, in bulk.	15	"	Good, and large size.	"	"		53345 "
	Figs, in bulk.	15	"	Good, and good size.	"	"		53352 "
	"	16	"	"	"	"		53359 "

5 GEORGE V., A. 1915

BULLETIN No. 269—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF THREE RIVERS—								
1913.								
June 20	Raisins...	58917	C. Barrette, Joliette	3 lbs.	30		HudonHebert, Montreal.	
" 20	Apples...	58918		3 "	36	West End Evap. Co., Brighton, Ont.		
" 20	Prunes...	58919	"	3 "	36	J. K. Armsby, San Jose, Cal.	HudonHebert, Montreal.	
" 25	Figs	58935	O. Carignan, fils, Three Rivers.	3 pkgs	45		L. Chaput fils, Montreal.	
" 30	Apple preserve.	58937	Ernest Lacerte, Yamachiche.	3 bxs.	27	Dom. Cannery, Montreal.	HudonHebert, Montreal.	"Gazelle" Brand
" 30	Figs	58938	Isaac Giguère, Louisville.	3 pkgs	24		L. Chaput fils, Montreal.	
" 30	Raisins...	58939	"	3 "	54		"	"King Edward" Brand.
" 30	Apples	58940	"	3 "	30		HudonHebert, Montreal.	
July 8	Dried Fruit.	58989	Louis P. auzé, L'Assomption.	3 lbs.	15		L. Chaput fils, Montreal.	
" 8	Currants	58990	W. H. Lacasse, L'Assomption.	3 bxs.	25		"	

DISTRICT OF EASTERN TOWNSHIPS—

July 15	Figs	1601	May & Houlahan, Sherbrooke.	1½ lb.	30	Mathewsons & Sons, Montreal.		
" 15	Raisins	1602	The Eastern Trading Co., Ayers Cliff.	3 pkgs	25	Griffin & Skelly Co., Fresno, Cal.		
" 16	Plums	1603	T. M. Bachelder & Co., Magog.	1½ lb.	18	G. T. Armstrong, Sherbrooke.	Bex marked W. & S., New York, Rose and La flamme, Montreal.	
" 16	"	1604	S. & W. Fortier, Ltd Sherbrooke, East.	1½ "	20	Unknown	Unknown	
" 22	"	1605	Longmoor & McElreary, Thetford Mines.	3 pkgs	30	Rosenberg Bros. & Co., Cal.	Whitehead & Turner, Quebec.	
" 23	Prunes	1606	La Cie des Cultivateurs, Ltd., St. Georges Beauce.	1½ lb.	15	Cal. Fruit Canners Assoc., Hanford, Cal.	J. B. Renaud, Quebec.	
" 24	Apples	1607	A. M. McKenzie, Scottstown.	1½ "	15	Geo. W. Chatterton, Winklow, Ont.	G. T. Armstrong, Sherbrooke.	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Results of Analysis.								Remarks* and Opinion of the Chief Analyst.
Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	
	Raisins in bulk.	16.5	Genuine.	Good and large size.	Sound	Clean.		58917 Satisfactory
	Apples in bulk.	15	"	Good and good size	"	"		58918 "
	Prunes in bulk.	15	"	Good and med. size.	"	"		58919 "
Aristocratic.	Figs in paper in wooden box.	12	"	Good, good size and soft.	"	"		58935 "
	Canned apples.							58937 Collected by mistake
	Figs in paper in wooden box.	10.5	Genuine.	Good, good size and soft.	Sound	Clean.		58938 Satisfactory.
King Edward.	Raisins in cardboard box.	15	"	Good and small size.	"	"		58939 "
	Apples in bulk.	15	"	Good and good size.	"	"		58940 "
	"	16	"	Dried and large.	"	"		58989 "
Primus.	Currants in cardboard carton.	14	"	Good and good size.	"	"		58990 14 oz. net, otherwise satisfactory.

J. C. ROULEAU, INSPECTOR.

	Figs in bulk.	7	Genuine.	Good and good size.			Sugar mites.	1601 Doubtful.
	Raisins in cardboard carton.	16	"	Good and med. size.	Sound		A few worms	1602 "
	Prunes in bulk.	8	"	"	"	Clean.		1603 Satisfactory.
	"	8	"	"	"	"		1604 "
	"	11	"	Good and good size.	"	"		1605 "
	"	11	"	Good and small size.	"	"		1606 "
	Apples in bulk.	8	"	Good and good size.	"		A few worms	1607 "

5 GEORGE V., A. 1915

BULLETIN No. 269

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer. Furnisher.	

DISTRICT OF EASTERN TOWNSHIPS

1913.							
July 28	Apples	1608	J. Plamondon, St. Césaire.	1½ lbs.	15	Lalor Co., Dunnville, Ont.	Hudon Hebert, Montreal.
" 29	Raisins	1609	J. E. Boulais, St. Angele Rouville.	1½ "	12	W. Abel, Denia Spain.	L. Chaput, fils & Cie., Montreal.
" 30	Apples	1610	H. Ledoux, Beloeil.	1½ "	15	Jno. Whiddon, Bayfield, Ont.	

DISTRICT OF MONTREAL

June 24	Figs.	58736	D. Genser, 39 Saint-gulmet St., Montreal.	3 pkts	30		Montreal Fruit Auction Co.
" 26	Raisins	58737	Isidore Gougeon, 363 Dorchester St. West, Montreal.	3 "	45	J. K. Armsby Co., California.	
" 26	Currants	58738	"	3 "	30		"Uno" Brand
" 26	Raisins	58739	R. Walsh, 376 Dorchester St. West, Montreal.	3 "	45		Hudon Hebert, Montreal.
July 2	"	58740	H. Montpetit Ste. Anne de Bellevue.	3 "	39		Hudon & Orsali, Montreal.
" 2	Currants	58741	J. Daoust & Cie. Ste. Anne de Bellevue.	3 "	30		Bergeron, Whissell & Co., Montreal.
" 9	Figs.	58742	W. J. Leduc, 2222 Notre Dame St. West, Montreal.	3 lbs.	60		W. Gilbert Frer, Montreal.
" 10	"	58743	F. X. Rouleau, 1839 St. James St. West, Montreal.	3 "	36		Bergeron, Whissell & Co., Montreal.
" 10	Prunes	58744	Victor Leveille, 2044 St. James St. West, Montreal.	3 "	30		Hudon Hebert & Co., Montreal.
" 25	Currants	58745	G. Pilon, St. Zotique.	3 pkts	30		L. Chaput & Fils, Montreal.

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Result of Analysis.								Remarks and Opinion of the Chief Analyst.
Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	
	Apples in bulk.	6.5	Genuine.	Good and good size.	Sound	Clean.		1608 Satisfactory.
	Raisins in bulk.	10	"	Dried and good size.	"	"		1609 "
	Apples in bulk.	7.5	"	"	"	"	A few worms	1610 Doubtful.

Concluded.

D. J. KEARNEY, INSPECTOR.

	Figs in bulk.	15	Genuine.	Good and good size.	Sound	Clean.		58736 Satisfactory
Sunkist	Raisins, in cardboard carton.	15	"	Good and large size.	"	"		58737 "
Juno	Currants "	16	"	"	"	"		58738 "
Sultana.	Raisins "	16	"	Good and small size.	"	"		58739 "
Ojo	"	15.5	"	Good and good size.	"	"		58740 "
Volcan.	Currants, in cardboard carton.	14	"	"	"	"		58741 14 oz. net, otherwise satisfactory.
	Figs, in bulk	16	"	"	"	"	A few worms and flies.	58742 Doubtful.
	"	15	"	Poor, fair size.	"	Dirty, Wormy.		58743 Adulterated.
	Prunes, in bulk.	16	"	Good, small size.	"	"	Slight ly wormy.	58744 "
Prinos.	Currants, in cardboard carton.	14	"	Good and large size.	Sound	Clean.		58745 14 oz. net, otherwise satisfactory

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BULLETIN No. 269—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VALLEYFIELD—

1913.								
July	2 Raisins.	58001	T. Dallaire, La- chute, P.Q.	3 pkgs	30			
"	2 Currants	58002	A. C. Bradford, La- chute, P.Q.	3 "	38			Nymph Brand
"	2 Dates	58003	J. D. Campbell, La- chute, P.Q.	3 "	30			Anchor
"	2 Raisins.	58004	Pariseau Bros., Brownsburgh, P.Q.	3 "	39			Pansy
"	4 Prunes...	58005	Arthur Bissett, Farnham, P.Q.	3 lbs.	30			
"	4 Currants	58006	R. Bernard, Farn- ham, P.Q.	3 pkgs	36			
"	4 Raisins	58007	J. E. Baillargeon, Farnham, P.Q.	3 "	25			Eagle Brand.
"	4 Currants	58008	"	3 "	30			Primus
"	10 Raisins...	58009	P. J. Roy, St. Johns, P.Q.	3 "	36			
"	10 Figs.	58010	E. Leblanc, St. Johns, P.Q.	3 lbs.	30			

DISTRICT OF OTTAWA—

June	28 Dates	59126	The MacKay Bros., Ltd., Renfrew, Ont.	3 pkgs	30	The Hills Bros. Co., New York.	Robertson Nicolle, Kingston.	Royal Excelsior Brand.
"	28 Raisins	59127	Michael Vies, Ren- frew, Ont.	3 "	25	Griffin Skelley Co., California.	Craig & Co., Kingston.	Silver Ear Brand
"	28 Currants	59128	"	3 "	30	Unknown	Unknown	Wapiti Brand.
"	30 Raisins	59129	H. A. Coolidge, Smith's Falls, Ont.	3 "	30	Chaddock & Son, Fresno, California	"	
July	2 Dates	59130	W. G. Becksted, Morrisburg, Ont.	3 "	30	The Hills Bros. Co., New York.	Forbes, Bros.	Anchor Brand.
"	2 Raisins	59131	"	3 "	38	Guggenbime & Co., California.	Laporte Martin, Montreal.	Daphne Brand.
"	3 Currants	59132	J. Y. Patrick, West- boro, Ont.	3 "	30	Hills Bros. Co., New York.	Castle & Co., Ottawa.	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Results of Analysis.								
Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in cans.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.
J. J. COSTIGAN, ACTING INSPECTOR.								
	Raisins, in cardboard carton.	15.5	Genuine.	Very damp, good size.	Sound	Clean	...	58001 Satisfactory.
Nymph.	Currants, in cardboard carton.	15	"	Good and good size.	"	"	...	58002 "
Anchor	Dates, in cardboard carton.	13	"	Good and good size and soft.	"	"	...	58003 13 oz. net, otherwise satisfactory.
Pansy.	Raisins, in cardboard carton.	16	"	Good and large size.	"	"	...	58004 Satisfactory.
.....	Prunes, in bulk.	16	"	Good and med. size.	"	"	...	58005 "
Signal	Currants, in cardboard carton.	15.5	"	"	"	"	...	58006 "
Eagle	Raisins, in cardboard carton.	16	"	Good and good size.	"	"	...	58007 "
	Currants, in cardboard carton.	14	"	"	"	"	...	58008 14 oz. net, otherwise satisfactory.
	Raisins, in cardboard carton.	15	"	"	"	"	...	58009 Satisfactory.
	Figs, in bulk	14	"	Poor and good size.	"	"	...	58010 Doubtful.

J. A. RICKEY, INSPECTOR.

Royal Excelsior.	Dates, in cardboard carton.	13.5	Genuine.	Good, large size, and soft.	Sound	Clean.	..	59126 13.5 oz. net, otherwise satisfactory.
Silver Bar	Raisins, in cardboard carton.	15	"	Good, and good size.	"	"	..	59127 Satisfactory.
Wapiti	Currants, in cardboard carton.	16	"	Good, and large size.	"	"	...	59128 "
Corona	Raisins, in cardboard carton.	13	"	Good, and good size.	"	"	...	59129 13 oz. net, otherwise satisfactory.
Anchor	Dates, in cardboard carton.	12.5	"	Good, good size, and soft.	"	"	...	59130 12.5 oz. net, otherwise satisfactory.
Daphne	Raisins, in cardboard carton.	15.5	"	Good, and good size.	"	"	...	59131 Satisfactory.
Royal Excelsior	Currants, in cardboard carton.	15	"	Good, and large size.	"	"	..	59132 "

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BULLETIN No 269—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (It is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA								
1913.								
July	3 Figs ..	59133	W. S. Allan, Westboro, Ont.	3 lbs.	25	.....	Provost & Alard, Ottawa	.....
"	3 "	59134	Graham & Acres, Westboro, Ont.	3 "	24	.....	"	.....
"	4 Dates	59135	H. Richardson, Ottawa.	3 pkgs	30	Wm. Hills, Jr., New York.	Castle & Co, Buffalo Brand Ottawa.	.....

DISTRICT OF KINGSTON—

June	23 Raisins.	57309	A. Glover, Kingston.	3 pkgs	39	Griffin & Skelley, Fresno, Cal.		
"	23 Figs.	57310	J. E. Purdy, Kingston.	3 lbs.	45		Geo. Robertson & Co., Kingston.	
"	23 Raisins.	57311	P.A. Hatfner, Kingston.	3 pkgs	30	Griffin & Skelley, Fresno, Cal.		
"	23 "	57312	J. Cullen, Kingston	3 "	45	Chaddock Co., Fresno, Cal.		
"	23 "	57313	C. H. Pickering, Kingston.	3 "	36	"		
"	23 Prunes	57314	J. Kelley Co., Kingston.	3 lbs.	45		Fenwick Hendry Co., Kingston.	
"	25 Raisins	57315	W. H. Launing, Belleville.	3 pkgs	30	Phoenix Packing Co., Fresno, Cal.		
"	25 "	57316	J. H. P. Young, Belleville.	3 "	36	Griffin Hobbs Co., Fresno, Cal.		
"	25 "	57317	T. R. Harvey & Son, Coburg.	3 "	38	Armsey Co.		
"	25 "	57318	Estate H. Crozier, Coburg.	3 "	38	Griffin Skelley		

DISTRICT OF TORONTO—

June	23 Apricots.	57435	S. J. Bailey, Collingwood, Ont.	3 lbs.	53	H. P. Eckerdt & Co., Toronto.	Sample from box labelled California Fruit Cannery Association.
"	24 Figs.	57436	Wisdom & Co., Ltd., Allendale, Ont.	3 "	21	Unknown.	
"	24 "	57437	J. H. Wilson & Son, Orillia, Ont.	3 "	30	F. H. Haywood, Orillia.	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Results of Analysis.								Remarks and Opinion of the Chief Analyst.
Brand.	Kind of Fruit and Nature of Package.	Net weight of Con- tents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or De- cay.	Cleanliness.	Nature of foreign matter, if any.	
Concluded.								
...	Figs, in bulk	16	Genu- ine.	Good, and good size.	...	Dirty.	Wor- my.	59133 Adulterated.
"	"	13	"	"	Sound	Clean.	...	59134 Satisfactory
Buffalo ...	Dates, in card board carton.	14	"	Good, good size, and soft.	"	"	...	59135 14 oz. net, otherwise satisfactory.

JAS. HOGAN, INSPECTOR.

Gold Bar ..	Raisins, in card board carton.	16	Genu- ine.	Good, and good size.	Sound	Clean.	...	57309 Satisfactory
" ..	Figs, in bulk	12	"	"	"	"	...	57310 "
Easter ..	Raisins, in card board carton.	15.5	"	"	"	"	...	57311 "
Corona ...	"	15	"	"	"	"	...	57312 "
" ..	"	15	"	"	"	"	...	57313 "
" ..	Prunes, in bulk.	14	"	Good, and large size.	"	"	...	57314 "
Tulip	Raisins, in card board carton.	16	"	Good, and med. size.	"	"	...	57315 "
Red and Gold. .	"	16	"	Good, and good size.	"	"	...	57316 "
Sunkist	"	15	"	Good, and large size.	"	"	...	57317 "
Griffin	"	15	"	"	"	"	...	57318 "

H. J. DAGER, INSPECTOR.

...	Apricots, in bulk.	17	Genu- ine.	Good and good size.	Sound	Clean.	...	57435 Satisfactory.
...	Figs, in bulk	15.5	"	Poor and good size.	...	Dirty.	Wor- my.	57436 Adulterated.
...	"	19	"	Good and good size.	...	"	"	57437 Doubtful.

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BULLETIN No. 269

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO

1913.							
June 25	Apples	57438	A. Rayner, Barrie, Ont.	3 lbs.	30	G. W. Chatterson, Wicklow.	
" 26	Currants	57439	D. Simpson & Co., Pickering, Ont.	3 "	30	.....	Davidson Hay Co., Ltd., Toronto.
" 27	Figs	57440	W. B. Pringle & Co., Whitby, Ont.	2½ "	13	.....	Grocers Ltd., Toronto.
" 27	Peaches	57441	S. F. Conlin, Oshawa, Ont.	3 "	38	.....	Unknown
July 3	Apples	57442	A. Thompson, King St. East, Toronto.	157 3	24	.....	Farmer
" 7	Figs	57443	C. J. Carrall, Parliament St., Toronto.	317 3	21	.....	Unknown.
" 8	Apricots	57444	J. F. Cryderman, 763 Queen St. East, Toronto.	3 "	45	.....	"

DISTRICT OF HAMILTON

July 11	Prunes	58816	C. Smith, 661 Barton Street, East, Hamilton	3 lbs.	39	The J. K. Arnaby Co.	
" 11	Dates	58817	F. G. Morris, Barton St. East, Hamilton.	731 3 pks.	30	The Hills Bros. Co., New York.	
" 11	Figs	58818	J. Venator, Barton St. East, Hamilton.	797 3 "	30	.....	Vendor
" 11	Prunes	58819	Mrs. C. Sanerman, 821 Barton Street East, Hamilton.	3 lbs.	38	Calif. Fruit Pack's Asso. San Francisco, Calif.	
" 15	Apricots	58820	J. Turnbull, York St., Hamilton.	497 3 "	45	J. K. Arnaby Co., Fresno, Calif.	
" 15	Dates	58821	M. L. McBeath, 235 York Street, Hamilton.	3 "	30	The Hills Bros. Co., New York.	
Aug. 20	Apricots	58822	James E. Eddie, Front St., Thorold.	3 "	31	Unknown	
" 25	Figs	58824	George Williams, Guelph.	1½ "	30	"	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Results of Analysis.						No. of Sample	Remarks and Opinion of the Chief Analyst.
		Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.		

Concluded.

.....	Apples, in bulk.	16.5	Genuine.	Good and good size.	Sound	Clean.	.....	57438	Satisfactory.
.....	Currents in bulk.	17	"	"	"	"	.....	57439	"
.....	Figs, in bulk	10	"	Small size.	Decay ed.	Dirty.	Wormy.	57440	Adulterated.
.....	Peaches, in bulk.	16	"	Good and large size.	Sound	Clean	.....	57441	Satisfactory
.....	Apples, in bulk.	15	"	Poor and good size.	Decay ed.	Dirty.	Wormy.	57442	Adulterated.
.....	Figs, in bulk	18	"	"	"	"	"	57443	"
.....	Apricots, in bulk.	15.5	"	"	.....	"	"	57444	"

D. M. CAMERON, INSPECTOR.

.....	Prunes, in bulk.	15	Genuine.	Poor and small size.	Decay ed.	Dirty.	Wormy.	58816	Adulterated.
.....	Dates, in cardboard carton.	14	"	Good, large and soft.	Sound	Clean.	.....	58817	14 ozs. net, otherwise satisfactory.
.....	Figs, in cardboard carton.	8.5	"	"	"	"	.....	58818	Satisfactory.
.....	Prunes, in cardboard carton.	16	"	Good, med. size.	.....	Dirty.	Wormy.	58819	Adulterated.
.....	Apricots, in bulk.	16	"	Good and good size	.....	.....	A few worms.	58820	Doubtful.
.....	Dates, in cardboard carton.	14.5	"	Fair, large and soft.	A few decayed.	Generally clean.	.....	58821	14.5 ozs. net. Doubtful.
.....	Apricots, in bulk.	15.5	"	Good and good size.	Sound	Clean.	58822	Satisfactory.
.....	Figs, in bulk	8	"	"	"	"	58824	"

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BULLETIN No. 269—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quant.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR—								
1913.								
July	7 Packaged Fruit.	54853	E. R. Snook, 3 pkgs Chatham.	35		Califor. Fruit Canners Assn.		"Rose Brand"
"	7 "	54855	Harry A. Andrew, 1½ lbs. Chatham.	19		A. M. Smith & Co., London, Ont.		
"	7 Dates	54856	Geo. A. Young, 3 pkgs Chatham.	30		Geo. Watt, Brantford.		"Dromedary Brand."
"	7 Packaged Fruit.	54858	M. E. Wilson, 3 lbs Chatham.	38		McPherson, Glasgow & Co., Hamilton.		
"	7 "	54859	Geo. Taylor, 3 " Chatham.	30		Unknown.		
"	8 Raisins	54861	G. Adam, Wind sor.	37		J. F. Smyth, Windsor, Ont.		"Red Feather Brand."
"	8 Packaged Fruit.	54864	N. Barker, Wind sor.	38		"		
"	8 "	54866	Jno. H. Luxford, 3 " Walkerville.	30		"		
"	9 Raisins...	54871	R. T. Moran, 3 pkgs Leamington.	38		G. Watt & Sons, Brantford.		"Purple and Gold Brand."
"	9 Packaged Fruit.	54872	C. B. Ellis, Leamington.	30		Unknown.		Quail Brand....

DISTRICT OF MANITOBA—

July	26 Raisins	48921	F. Fawley, 43½ pkgs Notre Dame, Winnipeg.	30		Malaca Packing Co., Malaca, Cal.		"Golden Ophir" Brand.
"	26 "	48922	John Dyke, William Ave., Winnipeg.	40		Eby Blain, Ltd., Toronto.		"Anchor" Brand.
"	26 "	48923	"	30		Rosenberg Bros. Co., San Francisco, Cal.		"Guardian" Brand.
"	27 Prunes..	48924	W. J. Robinson, Portage Ave., Winnipeg.	30		A. Macdonald & Co., Winnipeg.		
"	27 "	48925	Heaney Bros., Portage Ave., Winnipeg.	25				
"	27 Figs...	48926	"	25				
July	3 Prunes...	48927	O. Hughes, Pembina Ave., Winnipeg.	30		J. K. Armsby, San Jose, Cal.		
"	3 "	48928	Bain's Grocery, Pembina Ave., Winnipeg.	30		Unknown.		

SESSIONAL PAPER No. 14

DRIED AND PACKED FRUIT.

Results of Analysis.

Brand.	Kind of Fruit and Nature of Package.	Net weight of contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. NO. TALBOT, INSPECTOR.									
Rose....	Raisins in card board carton.	16	Genuine.	Good and good size.	Sound	Clean.		54853	Satisfactory.
.....	Prunes in bulk.	8	"	Good and small size.	"	Dirty.		54855	Doubtful.
Diomedary. . .	Dates in card board carton.	14	"	Good, good size and soft.	"	Clean.		54856	14 ozs. net. Otherwise satisfactory.
.....	Prunes in bulk	16	"	Large size.	"	Dirty.		54858	Doubtful.
.....	Currants in bulk.	16	"	Good, and good size.	Sound	Clean.		54859	Satisfactory.
Red Feather	Raisins in card board carton.	15 5	"	"	"	"		54861	"
.....	Prunes in bulk.	15	"	Good, and small size.	"	"	A few worms.	54864	Doubtful.
.....	Currants in bulk.	15 5	"	Good, and good size.	Sound	Clean.		54866	Satisfactory.
Purple and Gold.	Raisins in card board carton.	15	"	Good, and small size.	"	"		54871	"
Quail.....	"	16	"	Good size...	"	"		54872	"

A. C. LARIVIÈRE, INSPECTOR.

Gold of Ophir	Raisins in card board carton.	15 5	Genuine.	Good, and good size.	Sound	Clean.		48921	Satisfactory.
Anchor.....	"	15 5	"	Good, and large size.	"	"		48922	"
Guardian....	"	14	"	"	"	"		48923	14 ozs. net. Otherwise satisfactory.
.....	Prunes in bulk.	18	"	"	"	"		48924	Satisfactory.
.....	"	12	"	"	"	Dirty.	Wormy.	48925	Adulterated.
.....	Figs in bulk.	13	"	"	"	"		48926	Doubtful.
.....	Prunes in bulk	16	"	"	Sound	"		48927	"
.....	"	15	"	Good, and small size	"	Dirty.	A few worms.	48928	"

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BULLETIN No. 269—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
					Cent.	Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1913.							
July 14	Prunes.	48929	T. A. Newman & 3 Bros., Portage La Prairie.	lbs.	30	Campbell Bros. & Wilson, Winnipeg.	
" 15	"	48930	Ed. Bolton, Brandon.	3 "	30	The Codville Co., Brandon.	
DISTRICT OF ROCKY MOUNTAINS—							
July 2	Figs	48901	L. C. Masson, Revelstoke, B.C.	3 lbs.	45	Kelly, Douglas & Co., Vancouver, B.C.	
" 2	Raisins	48902	"	3 pkgs	45	"	
" 2	Currants	48903	"	"	45	"	
" 2	Prunes	48904	"	3 lbs.	45	W. H. Malkins & Co., Vancouver, B.C.	
" 2	Apricots	48905	"	3 "	60	"	
" 2	Peaches	48906	"	3 "	45	"	
" 2	Pears	48907	"	3 "	45	"	
" 2	Apples	48908	"	3 "	45	"	
16	Figs	48926	Union Co op. Ass'n, Rossland, B.C.	3 pkg	50	Rosenberg Bros. & Co., San Francisco.	
16	Prunes	48927	"	3 lbs.	40	North Ontario Packing Co., California.	
DISTRICT OF VANCOUVER—							
Aug. 12	Raisins	54926	McTaggart's grocery, Granville St., Vancouver, B.C.	3 pkgs	40	Mowat & Co., Fresno, Cal.	
" 12	"	54927	McKenzie's grocery, 711 Robson St., Vancouver, B.C.	3 "	25	Kelly, Douglas & Co., Vancouver, B.C.	"Nabob" Brand
" 12	"	54928	A. & C. grocery, 909 Georgia St., Vancouver, B.C.	3 "	40	"	"Columbia Brand, choice bleached Sultana.
" 12	"	54929	Turner's grocery, Hornby and Pender Sts., Vancouver, B.C.	3 "	40	Am. Vineyard Co., Fresno, Cal.	"Nots-Seed Brand, Sun Cured.

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Results of Analysis.								Remarks and Opinions of the Chief Analyst.	
Brand.	Kind of Fruit and Nature of Package.	Net weight of Con- tents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or De- cay.	Cleanliness.	Nature of foreign matter, if any.		No. of Samples.
Concluded.									
..	Prunes in bulk.	16	Genu- ine.	Good, med. size.	Sound	Dirty.	A few worms.	48929 Doubtful.	
..	..	16	"	Good, small size.		Clean.	..	48930 Satisfactory.	
THOS. PARKER, INSPECTOR.									
..	Figs in bulk.	16	Genu- ine.	Good and good size.	Sound	..	A few worms	49901 Doubtful.	
Columbia	Raisins in cardboard carton.	14	"	"	"	Clean.	..	49902 14 oz. net, otherwise satisfactory.	
..	Currants in cardboard carton.	16	"	Good and large size.	"	"	..	49903 Satisfactory.	
..	Prunes in bulk.	16	"	"	"	"	..	49904 "	
..	Apricots in bulk.	15	"	Good and good size.	"	"	..	49905 "	
..	Peaches in bulk.	15	"	Good and large size.	"	"	..	49906 "	
..	Pears in bulk	16	"	"	De- cayed.	Dirty.	Flies and worms	49907 Adulterated.	
..	Apples "	16	"	Good and good size.	Sound	Clean.	..	49908 Satisfactory.	
Lily	Figs in tis- sue paper.	12.5	"	"	"	"	..	49926 "	
..	Prunes in bulk.	16	"	Good med. size.	"	"	..	49927 "	
J. F. POWER, INSPECTOR.									
..	Raisins in cardboard carton.	16	Genu- ine.	Good and large size.	Sound	Clean.	..	54926 Satisfactory.	
..	"	11.5	"	"	"	"	..	54927 11.5 oz. net, other wise satisfactory.	
..	"	15	"	Good and small size.	"	"	..	54928 Satisfactory	
Ideal	..	16	"	..	"	"	..	54929 "	

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BULLETIN No 269—

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER								
1913.								
Aug. 13	Raisins.	54930	E. Bailey, 537 Howe St., Vancouver, B.C.	3 pkgs	25	.....	W. H. Malkin & Co., Vancouver, B.C.	"Victoria Cross Brand.
" 13	"	54931	J. R. Gosling, 942 Pender St., Vancouver, B.C.	3 "	25	.....	Chaddock & Co., Fresno, Cal.	"Blue Jay" Brand.
" 13	"	54932	D. McGregor, Pender and Bute Sts., Vancouver, B.C.	3 "	40	.....	Calif. Fruit Canners' Association, Fresno, Cal.	"Del Monte" Brand.
" 14	"	54933	T. Russell, 444 Pender St., Vancouver, B.C.	3 "	30	.....	Guggenheim & Co., California, U.S.A.	"Quaker" Brand
" 14	"	54934	H. A. Edgett & Co., Vancouver, B.C.	3 "	25	.....	"	"Ramona" "
" 15	"	54935	Gruchy & Carlow, 5th Avenue and Granville Street, Vancouver, B.C.	3 "	25	.....	Wilson Bros., Victoria, B.C.	"Daisy" "
DISTRICT OF VICTORIA								
July 9	Prunes	53587	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	3 lbs.	35	.....	S. Leiser & Co., Victoria, B.C.	.....
" 9	Dates	53588	"	3 pkgs	15	The Hills Bros. Co., New York.	.....	"Royal Excel-sior" Brand.
" 9	Prunes	53591	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 lbs.	25	.....	Wilson Bros., Victoria, B.C.	.....
" 9	Figs.	53593	Pulice & Pulice, 729 Pandora Ave., Victoria, B.C.	3 pkgs	25	.....	Patterson Bros., Victoria, B.C.	"Khedive" brand
" 9	Raisins	53594	"	3 "	30	.....	R. P. Rithet & Co., Victoria, B.C.	"Gold Ribbon" Brand.
" 9	Figs.	53595	"	3 "	30	.....	Patterson Bros., Victoria, B.C.	.....
" 9	Currants.	53596	R. Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	40	.....	R. P. Rithet & Co., Victoria, B.C.	"Narcissus" Brand.
" 15	Raisins.	53599	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 "	30	The J. K. Arms by Co., Fresno, Calif.	.....	"Elk" Brand.
" 15	Currants.	57601	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	3 lbs.	30	.....	R. P. Rithet & Co., Victoria, B.C.	.....
" 18	Dates	57610	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3 pkgs	45	The Hills Bros. Co., New York.	.....	"Dromedary" Brand.

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.		
<i>Concluded.</i>									
Victoria Cross...	Raisins in cardboard carton.	16	Genuine.	Good and large size.	Sound	Clean.	...	54930	Satisfactory.
Blue Jay..	"	10	"	"	"	"	....	54931	10 oz. net, otherwise satisfactory.
Del Monte . . .	"	16	"	Good and small size.	"	"	....	54932	Satisfactory.
Quaker . . .	"	16	"	Good and large size.	"	"	....	54933	"
Ramona . . .	"	12	"	"	"	"	....	54934	12 oz. net, otherwise satisfactory.
Daisy . . .	"	16.5	"	"	"	"	....	54935	Satisfactory.

D. O'SULLIVAN, INSPECTOR.

.....	Prunes in bulk.	13	Genuine.	Good and med. size.	Sound	Clean.		53587	Satisfactory.
Royal Excelsior.	Dates in cardboard carton.	14	"	Good large size and soft.	"	"		53588	14 oz. net, otherwise satisfactory.
.....	Prunes in bulk.	16	"	Good and med. size.	.....	Dirty, worms		53591	Adulterated.
Khedive . . .	Figs in paper.	14	"	Good and good size.	Sound	Clean.		53593	Satisfactory.
.....	Raisins in cardboard carton.	16.5	"	"	"	"		53594	"
Black Figs. . . .	Figs in small pasteboard box.	9	"	"	"	"		53595	"
Narcissus. . .	Currants in cardboard carton.	15	"	"	"	"		53596	"
Elk	Raisins in cardboard carton.	16	"	"	"	"		53599	"
.....	Currants in bulk.	12	"	"	"	"		57601	"
Dromedary. . .	Dates in cardboard carton.	12	"	"	"	"		57610	12 oz. net, otherwise satisfactory.

APPENDIX M.

BULLETIN No. 270—TALLE SALT.

OTTAWA, November 10, 1913.

WM. HIMS WORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 139 samples of table salt, collected by our inspectors during January and February of this year.

None of the samples can be regarded as in any way objectionable, still less as harmful, for the purposes of table salt.

At the same time, they vary in quality through a considerable range, as regards their freedom from other substances than chloride of sodium, which may be regarded as the essential and characteristic constituent of salt.

I think it not unreasonable to require that a purified salt, for table use, should be practically free from other chlorides than sodium chloride; and should contain sulphates in amount less than corresponding to 0.75 per cent of sulphuric acid (SO_3).

The only sulphate usually present in salt is calcium sulphate; and 0.75 per cent SO_3 corresponds to about 1.28 per cent of calcium sulphate.

On this basis, 24 samples contain somewhat higher sulphates than should be found in refined salt.

Thirty samples show excessive amounts (above 0.1 per cent) of insoluble matter. In all cases this is of harmless character; and appears to be purposely added in order to reduce the hygroscopicity of the salt, and thus to prevent caking. As I pointed out in Bulletin No. 220, the fact of such addition should be noted on the label.

Owing to press of other work, it has not yet been found possible to fix standards for this article. This will be done as soon as practicable.

I beg to recommend publication of this report as Bulletin No. 270.

I have the honour to be, sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.							
Jan. 14	Table salt.	46661	A. L. Doyle & Co., Halifax, N.S.	3 lbs.	5	Canadian Salt Co., Windsor, Ont.	John Tobin & Co., Halifax, N.S.
" 16	" "	46662	T. J. Brown, Halifax, N.S.	3 "	5	" " "	Morrison & Williams, Halifax, N.S.
" 17	" "	46663	Wentzells Ltd., Halifax, N.S.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	Manufacturers
" 17	" "	46664	Wm. Moore, Halifax, N.S.	3 "	5	" " "	" "
" 22	" "	46665	De Wolf & Lamont, Kentville, N.S.	3 "	5	Canadian Salt Co., Windsor, Ont.	R. B. Seaton & Co., Halifax, N.S.
" 22	" "	46666	Yerxas Store, Halifax, N.S.	3 "	5	" " "	H. W. Cole, St. John, N.B.
" 23	" "	46667	A. F. Ross & Co., Truro, N.S.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	McColloch, Creelman & Morrison, Truro, N.S.
" 23	" "	46668	H. W. Ryan & Co., Truro, N.S.	2 "	5	" " "	" "
" 23	" "	46669	The Truro Market, Truro, N.S.	2 "	5	" " "	" "
" 23	" "	46670	B. O. Bishop, Dartmouth, N.S.	2 "	5	Canadian Salt Co., Windsor, Ont.	John Tobin & Co., Halifax, N.S.

DISTRICT OF PRINCE EDWARD ISLAND—

Jan. 4	Table salt.	46350	Beer & Goff, Charlottetown, P.E.I.	1 lb.	2	Canadian Salt Co., Windsor, Ont.	...
" 7	" "	46360	Sanderson & Co., Charlottetown, P.E.I.	1 "	2	Windsor Salt Co., Windsor, Ont.	...
" 8	" "	46361	Coffin & Co., Charlottetown, P.E.I.	1 "	2	Canadian Salt Co., Windsor, Ont.	...
" 8	" "	46362	W. W. Walker, Charlottetown, P.E.I.	1 "	2	...	J. A. Farquharson, Charlottetown, P. E.I.
" 13	" "	46363	A. Gates & Co., Charlottetown, P.E.I.	1 "	2	Unknown	Carvell Bros., Charlottetown, P.E.I.
" 13	" "	46364	Stewart & Son, Charlottetown, P.E.I.	1 "	2	Canadian Salt Co., Ltd., Windsor, Ont.	...
" 14	" "	46365	J. A. Hynes, Kensington, P.E.I.	1 bag.	5	" " "	...
" 15	" "	46366	Brace McKay & Co., Ltd., Summerside, P.E.I.	1 tin.	10	" " "	...
" 15	" "	46367	Sinclair & Stewart, Summerside, P.E.I.	1 "	10	Dearborn & Son, St. John, N.B.	...
" 17	" "	46368	L. Hazard, Charlottetown, P.E.I.	1 "	12	" " "	...

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample	Remarks and Opinion of the Chief Analyst.
	Moisture.	Insoluble.	SO ₂ .	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .		
					Remarks.		
"Winsor" Salt.	p. c.	p. c.	p. c.	p. c.	p. c.		
	0.21	Trace ..	0.54	0.39	Trace ..	46661	
.....	0.21	" ..	0.57	0.43	" ..	46662	
"Shaker" Salt.	0.14	0.45	0.14	Trace ..	.....	46663	Contains 1 per cent MgCO ₃ .
"Peerless" Brand	0.08	Trace ..	Trace ..	0.08	Trace ..	46664	Insoluble matter high.
.....	0.12	" ..	0.63	0.43	" ..	46665	
.....	0.17	" ..	0.50	0.37	" ..	46666	
.....	0.12	0.45	0.09	Trace ..	.....	46667	Contains 1 per cent MgCO ₃ .
.....	0.11	Trace ..	0.32	0.24	Trace ..	46668	Insoluble matter high.
.....	0.06	" ..	0.21	0.17	" ..	46669	
.....	0.19	" ..	0.83	0.57	" ..	46670	Sulphates high.

WM. A. WEEKS, INSPECTOR.

.....	0.19	Trace ..	0.48	0.39	Trace ..	46359	
.....	0.19	" ..	0.59	0.45	" ..	46360	
.....	0.23	" ..	0.56	0.41	" ..	46361	
.....	0.22	" ..	0.53	0.29	" ..	46362	
.....	0.15	" ..	0.42	0.31	" ..	46363	
.....	0.17	" ..	0.65	0.49	" ..	46364	Sample received in damaged condition.
.....	0.11	" ..	0.59	0.41	" ..	46365	
.....	0.23	0.92	0.57	0.10	0.66	46366	Residue mostly CaCO ₃ and CaSO ₄ .
.....	0.22	2.18	0.57	0.32	Trace ..	46367	Residue is starch.
.....	0.43	0.80	0.58	0.45	" ..	46368	

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BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK							
1912							
Dec. 20	Table Salt.	50535	H. S. Francis, St. John, N.B.	1 lb	3		G. E. Barbour & Co., Ltd., St. John, N.B.
" 23	"	50536	P. Nasc & Son, St. John, N.B.	1 "	5		Gandy & Allison, St. John, N.B.
1913.							
Jan. 7	"	50537	John McKnight, Fredericton, N.B.	1 bag	5	The Canadian Salt Co., Ltd., Windsor, Ont.	
" 9	"	50538	M. S. Moorehouse, Woodstock, N.B.	1 "	5		
" 14	"	50539	Herman A. Myers, Norton, N.B.	1 "	5		
" 15	"	50540	Mills, Eveleigh Ltd., Sussex, N.B.	1 "	5	Diamond Crystal Salt Co., St. Clair, Mich., U.S.A.	
" 15	"	50541	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	12	The Can. Salt Co., Ltd., Windsor, Ont.	
" 16	"	50542	D. A. McBeath, Moncton, N.B.	1 "	10	Diamond Crystal Salt Co., St. Clair, Mich., U.S.A.	
" 16	"	50543	Geo. A. Robertson, Moncton, N.B.	1 lb	3	The Canadian Salt Co., Ltd., Windsor, Ont.	
" 16	"	50544	2 Barkers, Ltd., Moncton, N.B.	1 "	3		

DISTRICT OF QUEBEC

1912.							
Dec. 23	Table Salt.	37118	Elzear Gagnon, 138 Rue Dorchester, Quebec.	1 sack.	5	Windsor, Ont.	Unknown.
" 23	"	37119	E. D. Marier, 136 Rue Dorchester, Quebec.	1 "	5	"	J. B. Reneaud
" 26	"	37120	Jos. Goshin, 50 Rue Dorchester, Quebec.	1 "	5	Royal Table Salt	Ed. Frenette, Quebec.
" 26	"	37121	Ed. Verreault, 204 Rue de la Reine, Quebec.	1 "	5	Peerless, Bristol.	Langlois & Paradis.
" 26	"	37122	A. Cloutier, 132 Rue Laliberté, Quebec.	1 "	5	"	Drouin & Frère.
" 27	"	37123	W. Hayfield, 50 Rue Ste. Marguerite, Quebec.	1 "	5	Windsor, Ont.	J. B. Reneaud & Cie.
1913.							
Jan. 3	"	37124	Hamel & Bedard, 728 Rue St. Valier, Quebec.	1 "	5	"	Turcot & Frère.
" 3	"	37125	L. Desgagné, 914 Rue St. Valier, Quebec.	1 "	5	Family Doiry	Gagnon & Garent.
" 3	"	37126	Cantin et Frère, 271 Rue St. Joseph, Quebec.	1 "	5	Windsor, Ont.	Turcot & Co.
" 7	"	37127	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	1 "	5	"	Unknown.

SESSIONAL PAPER No. 14

TABLE SALT.

Results of Analysis.							Remarks and Opinion of the Chief Analyst.
Inspector's Report. (Is not an expression of Opinion).	Moisture.	Insoluble.	SO ₃ .	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .	Remarks.	
J. C. FERGUSON, INSPECTOR.							
	p. c.	p. c.	p. c.	p. c.	p. c.		
	0.13	Trace	0.65	0.42	Trace		50535
English	0.15	"	0.94	0.38	"		50536 Sulphates high.
	0.13	"	0.56	0.36	"		50537
	0.08	"	0.71	0.44	"		50538
	0.38	"	0.50	0.31	"		50539
	0.09	"	0.18	Trace	"		50540
Regal Table Salt.	0.26	1.06	0.66	0.16	0.71	Residue is Ca SO ₄ and Mg CO ₃ .	50541 Insoluble matter high.
"Shaker" Brand.	0.09	0.62	0.12	Trace	0.50	Residue is Ca CO ₃ and Mg CO ₃ .	50542 "
	0.21	Trace	0.72	0.49	Trace		50543
	0.28	"	0.89	0.61	"		50544 Sulphates high.
F. X. W. E. BELAND, INSPECTOR.							
	0.21	Trace	0.96	0.56	Nil		37118 Sulphates high.
	0.23	"	0.69	0.50	"		37119
	0.21	"	0.64	0.50	Trace		37120
	0.09	"	0.34	0.28	"		37121
	0.11	"	0.24	0.19	Nil		37122
	0.18	"	0.54	0.39	"		37123
	0.15	"	0.60	0.49	"		37124
	0.20	"	0.56	0.43	Trace		37125
	0.11	"	0.57	0.37	"		37126
	0.15	"	0.56	0.39	"		37127

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BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Costs.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN QUEBEC—

1912.							
Dec. 19	Table salt.	53302	F. Chouinard, St. Pamphile.	1 lb.	2	The Royal Table Salt Co., Canada.	
" 24	"	53305	Talbot Ltd., Rimouski.	1 "	2	Canadian Salt Co., Windsor, Ont.	
" 26	"	53308	J. E. Pinaau, Fraserville.	1 "	5	" "	

DISTRICT OF EASTERN TOWNSHIPS—

1913.							
Jan. 30	Table salt.	51156	L. Lafrance, Danville, Que.	1 bag.	10		
" 30	"	51157	H. Brodeur, St. Hyacinthe, Que.	1 "	5		
" 30	"	51158	E. Lafrance, St. Hyacinthe, Que.	1 carton.	5	Diamond Crystal Salt Co.	
" 30	"	51159	J. B. St. Pierre, St. Hyacinthe, Que.	2 lbs.	2		
Feb. 6	"	51160	J. A. Baraby, St. Jacques St., St. Johns, Que.	1 bag.	5	Canadian Salt Co. Ltd.	
" 6	"	51161	A. Dubois, St. Jacques St., St. Johns, Que.	2 lbs.	2	Unknown	
" 6	"	51162	P. J. Roy, St. Jacques St., St. Johns, Que.	2 "	2	"	
" 6	"	51163	" " "	1 bag.	5	Diamond Crystal Salt Co.	
" 6	"	51164	Joseph Chartier, Market Square, St. John, Que.	2 lbs.	2	Unknown	
" 6	"	51165	W. Simpson, Grocer, St. John, Que.	1 carton.	15	Cerebos Ltd., England.	

DISTRICT OF MONTREAL—

Jan. 22	Table salt.	51088	A. E. Sennat, 191 Ville-neuve St. E. Montreal, Que.	1 bag.	5	Canadian Salt Co.	
" 22	"	51089	St. Denis Grocery, 1660 St. Denis St., Montreal, Que.	1 lb.	2		
" 22	"	51090	S. J. Short, 1551 St. Denis St., Montreal, Que.	1 bag.	5	Canadian Salt Co.	
" 22	"	51091	" " "	2 lbs.	2		
" 22	"	51092	A. S. Clemeut, 151 Rachel St. E., Montreal, Que.	2 "	3		
" 22	"	51093	R. & A. Blouin, 137 Duluth Ave. E., Montreal, Que.	2 "	3		
" 22	"	51094	M. Kahner, 90 Roy St. E., Montreal, Que.	2 "	2		

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Insoluble.	SO ₂ .	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .			
A. PELLETIER, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
	0.35	Trace ..	0.84	0.60	Trace ..		53302	Sulphate high.
	0.19	" ..	0.49	0.34	" ..		53305	
	0.14	" ..	0.62	0.48	Nil ..		53308	
J. J. COSTIGAN, ACTING INSPECTION.								
"Empire" Brand	0.18	Trace ..	0.38	0.30	Trace ..		51156	
"Windsor" Brand.	0.19	" ..	0.48	0.33	Nil ..		51157	
"Shaker" Brand.	0.11	0.80	0.21	0.15	0.24	Residue is MgCO ₃ .	51158	Insoluble matter high.
	0.40	Trace ..	0.91	0.66	Trace ..		51159	Sulphates high.
Windsor Table Salt.	0.18	" ..	0.60	0.41	Nil ..		51160	
	0.41	" ..	1.01	0.71	Trace ..		51161	Sulphates high.
	0.17	" ..	0.96	0.58	" ..		51162	"
	0.06	Nil ..	0.15	0.11	" ..		51163	
	0.22	Trace ..	0.79	0.50	" ..		51164	
Prepared Cerebos Table Salt.	0.19	3.31	0.98	0.45	" ..	Residue is MgCO ₃ .	51165	Insoluble matter high, sulphates high.
J. J. COSTIGAN, INSPECTOR.								
	0.15	Trace ..	0.62	0.43	Trace ..		51088	
	0.28	" ..	0.68	0.48	" ..		51089	
	0.18	" ..	0.59	0.43	" ..		51090	
	0.20	" ..	0.57	0.43	" ..		51091	
	0.21	" ..	0.62	0.46	" ..		51092	
	0.18	" ..	0.88	0.55	" ..		51093	Sulphates high.
	0.15	" ..	0.85	0.58	" ..		51094	

5 GEORGE V., A. 1915

BULLETIN No. 270—

Date of Collection	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL							
1913.							
Jan. 22	Table Salt.	51095	J. Merimer, 16 Roy St. E., Montreal.	2 lbs.	2		
" 22	"	51096	S. Feldman, 24 Pine Ave. E., Montreal.	2 "	2		
" 22	"	51097	S. L. Mathanson & Son, 18 Ontario St. E., Montreal.	2 "	2		

DISTRICT OF OTTAWA							
1912.							
Dec. 23	Table Salt.	51657	Mundle & Percival, Keenptville.	1 bag.	5	Canadian Salt Co., Windsor, Ont.	Jno. Eligh, North Rideau.
" 24	"	51658	Jno. McKinnon, Almonte.	1 "	10	"	Mathewson's Sons, Montreal.
" 26	"	51659	W. J. Martin, Buckingham.	1 "	5	"	Chaput, fils et Co., Montreal.
" 26	"	51660	McCallum & Lahaie, Buckingham.	1 "	5	"	Verret, Stewart & Co., Montreal.
" 26	"	51661	P. Lamoureux & Cie, Dalhousie St., Ottawa.	1 "	5	"	Provost & Allard, Ottawa.
" 30	"	51662	A Boivin, Queen St. west, Ottawa.	1 "	5	"	Unknown
" 30	"	51663	R. Lavigne, Queen St. west, Ottawa.	1 "	5	"	"
" 31	"	51664	J. C. Ray, Elgin St., Ottawa.	1 "	5	"	Castle & Co., Ottawa.
" 31	"	51665	Crabtree & Trowbridge, Elgin St., Ottawa.	3 box's	30	The Snowflake Salt Co., New York City.	"
" 31	"	51666	D. A. Younghusband, Elgin St., Ottawa.	1 bag.	5	Canadian Salt Co., Ltd., Windsor, Ont.	"

DISTRICT OF KINGSTON							
Dec. 17	Table Salt.	53026	A. Glover, Kingston.	3 lbs.	5	Windsor	
" 17	"	53027	J. Crawford, Kingston.	3 "	5	"	
" 17	"	53028	D. Coupre, Kingston.	3 "	5	"	
" 17	"	53029	Anderson Bros., Kingston.	3 "	5	"	
" 18	"	53030	Wm. J. Patterson, Belleville.	3 "	5	Canadian Salt Co., Windsor.	
" 18	"	53031	F. Rosevear, Port Hope.	3 "	5	"	
" 19	"	53032	H. Bradshaw, Peterboro.	3 "	5	"	
" 19	"	53033	J. E. Lillico, Peterboro.	3 "	5	"	
" 19	"	53034	J. H. Heal, Peterboro.	3 "	5	"	
" 19	"	53035	W. J. Ronlty, Peterboro.	3 "	5	"	

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					Remarks	No. of Sample	Remarks and Opinion of the Chief Analyst.
	Moisture.	Insoluble.	SO ₄ .	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .			

Concluded.

	p. c.	p. c.	p. c.	p. c.	p. c.		
...	0.17	Trace ..	1.06	0.70	Trace ..	...	51095 Sulphates high.
...	0.22	"	0.83	0.60	"	...	51096 "
...	0.22	"	0.82	0.58	"	...	51097 "

J. A. RICKEY, INSPECTOR.

...	0.23	Trace ..	0.58	0.44	Trace ..	...	51657
...	0.15	"	0.66	0.47	Nil...	...	51658
...	0.19	"	0.65	0.48	"	...	51659
...	0.16	"	0.58	0.44	Trace ..	...	51660
...	0.22	"	0.50	0.38	Nil.	...	51661
...	0.15	"	0.45	0.34	"	...	51662
...	0.19	"	0.61	0.46	Trace ..	...	51663
...	0.20	"	0.67	0.56	"	...	51664
...	0.34	0.60	0.65	0.36	0.38	Residue is MgCO ₃ .	51665 Insoluble high.
...	0.20	Trace ..	0.62	0.47	Nil...	...	51666

JAS. HOGAN, INSPECTOR.

...	0.25	Trace ..	0.76	0.68	Nil.....	...	53026
...	0.12	"	0.52	0.37	Trace ..	...	53027
...	0.16	"	0.46	0.33	Nil.....	...	53028
...	0.18	"	0.56	0.43	"	...	53029
...	0.15	"	0.40	0.34	Trace ..	...	53030
...	0.14	"	0.76	0.53	"	...	53031
...	0.19	"	0.57	0.44	"	...	53032
...	0.18	"	0.89	0.82	"	...	53033 Sulphates high
...	0.22	"	0.64	0.54	Nil.	...	53034
...	0.17	"	0.52	0.39	Trace ..	...	53035

5 GEORGE V., A. 1913

BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Dec. 26	Table salt.	51521	Warren Bros. & Co., 87 1 Front St. West, Tor- onto.	1 lb.	5	The Carey Salt Co., Hutchison, Kan.	
" 26	"	51522	The Davidson & Hay, Ltd., 36 Young St., Toronto, Ont.	1 "	10	The Sulphosa Salt Co., Ltd., London, N.	
" 26	"	51523	H. P. Eckardt & Co., 25 19 Front St. West, Toronto.	2 1/2 "	5	Diamond Crystal Salt Co., St. Clair, Mich.	
" 26	"	51524	J. M. Evans & Co., 1743 Dundas St. West, Toronto.	1 "	5	Unknown	
1913.							
Jan. 7	"	51525	T. Kinnear & Co., 49 Front St. East, Tor- onto.	2 "	3	Canadian Salt Co. Ltd., Windsor.	
" 7	"	51526	Eby Blain Ltd., 21-23 Front St. East, Tor- onto.	2 "	10	Packaged by vendors	
" 7	"	51527	Canada Brokerage Co. Ltd., 9 Front St. East, Toronto.	2 "	Nil.	The Dom. Salt Co., Ltd., Sarnia.	
" 7	"	51528	Toronto Salt Works, 128 Adelaide St. East, Toronto.	2 "	5	Packaged by vendors	
" 7	"	51529	Swan Bros., 162 King St. East, Toronto.	2 "	10	Toronto Salt Works Toronto.	
" 7	"	51530	James Lumbers Co., Ltd., 67 Front St. East, Toronto.	2 "	8	Western Salt Co., Ltd., Mooretown, Ont.	
DISTRICT OF WINDSOR—							
Jan. 2	Table salt.	47904	Wm. Cross, Strathroy.	1 bag	10	Dominion Salt Co., Sarnia.	
" 3	"	47910	E. J. Coles Co., Wood- stock, Ont.	1 "	5	" " "	
" 3	"	47911	White & Co., Wood- stock, Ont.	1 "	5	" " "	
" 6	"	47914	Ideal Co-op. Asso. Co., St. Thomas.	1 lb.	5	Canadian Salt Co., Windsor.	
" 6	"	47915	G. M. Charlton, St. Thomas.	1 pkge	5	" " "	
" 6	"	47916	A. Dingman, St. Thomas.	1 "	5	" " "	
" 6	"	47917	D. H. McIntyre, St. Thomas.	1 "	5	" " "	

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture.	Insoluble.	SO ₂	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .				
H. J. DAGER, INSPECTOR.									
	p. c.	p. c.	p. c.	p. c.	p. c.				
"Sunflower" Brand prepared with a small quantity of bicarbonate of soda.	0.19	0.14	0.31	0.15	Trace		51521		
"Salt Selpiosa" reg. trade mark.	0.11	1.00	0.10	0.10	Trace	Residue is mostly MgCO ₃ with a little CaCO ₃ .	51522	Insoluble high.	matter
Above 99 per cent pure.	0.05	Nil.	0.10	0.07			51523		
"Salt Royal," Salt Royal Salt Co., Manchester, Eng.	0.03	0.23	Nil.	Trace		Residue is MgCO ₃ and CaCO ₃ .	51524	Insoluble high.	matter
Windsor Table Salt, purest and best.	0.12	Nil.	0.53	0.38	"		51525		
"Anchor" Brand free running shaker salt.	0.12	1.71	0.70	0.75	0.38	Residue is mostly MgCO ₃ with some CaCO ₃ .	51526	Insoluble high.	matter
"Century" Brand, free from adulterants of any kind.	34	Trace	1.02	0.74	Nil.		51527	Sulphates high.	
"Cliffe" Brand.	0.26	0.91	0.55	0.44		Residue is starch.	51528	Insoluble high.	matter
"Acme" Salt	0.31	1.02	0.77	0.56	Trace	" "	51529		
"Purity" Brand.	0.17	1.06	0.58	0.35		Residue is CaCO ₃ .	51530		
JOHN TALBOT, INSPECTOR.									
Century Table Salt.	0.25	Trace	0.82	0.61	Trace		47904	Sulphates high.	
"	0.30	"	1.04	0.73	"		47910		
"	0.44	"	1.00	0.72	"		47911		
Windsor Table Salt, purest and best.	0.60	"	0.59	0.38	Nil.		47914		
"	0.13	"	0.52	0.39	Trace		47915		
"	0.12	"	0.39	0.33	"		47916		
"	0.16	"	0.54	0.42	Nil.		47917		

5 GEORGE V., A. 1915

BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR

1913.							
Jan.	6	Table salt.	47922 W. A. Munir, St. Thomas.	1 pkge	5	Canadian Salt Co., Windsor, Ont.	
"	6	"	47923 J. C. Gillman, St. Thomas.	1 "	5	" "	

DISTRICT OF MANITOBA—

Feb.	3	Table salt.	48806 Hardy & Buchanan, 112 Osborne St., Winnipeg.	1 lb.	5	Canadian Salt Co., Windsor, Ont.	Campbell Bros. & Wilson, Winnipeg.
"	3	"	48807 T. Brown, 193 Pembina St., Winnipeg.	1 "	5	Dom. Salt Co.	A. MacDonald & Co., Winnipeg.
"	3	"	48808 G. T. Grant, 211 Pembina St., Winnipeg.	1 "	5	Canadian Salt Co., Windsor, Ont.	The Codville Co., Winnipeg.
"	3	"	48809 J. Bennett, 219 Nassau St., Winnipeg.	1 "	10	" "	Richards Brown & Co., Winnipeg.
"	3	"	48810 McBeans, Gertrude Ave., Winnipeg.	1 "	10	" "	The Codville Co., Winnipeg.
"	3	"	48811 W. Nicholson, 605 Corydon Ave., Winnipeg.	1 "	5	" "	Campbell Bros. & Wilson, Winnipeg.
"	3	"	48812 W. Allison, 759 Corydon Ave., Winnipeg.	1 "	10	Diamond Crystal Salt Co.	Richards Brown & Co., Winnipeg.
"	3	"	48813 L. Kirvel, 781 Corydon Ave., Winnipeg.	1 "	10	" "	" "
"	4	"	48814 Francis Bros., Norwood Grove.	1 "	5	Canadian Salt Co., Windsor.	The Codville Co., Winnipeg.
"	4	"	48815 J. Donnelly & Son, Norwood Grove.	1 "	10	" "	Campbell Bros. & Wilson, Winnipeg.

DISTRICT OF ROCKY MOUNTAINS—

Jan.	3	Table salt.	49795 J. Davis & Co., Grand Forks, B.C.	1 sack	15	Canadian Salt Co., Windsor.	
"	3	"	49800 J. Donaldson, Grand Forks, B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
"	3	"	49801 " " "	1 jar	15	W. H. Malkin & Co., Vancouver, B.C.	
"	8	"	49805 J. Svoboda, Nelson, B.C.	1 "	15	Diamond Crystal Salt Co., St. Clair, Mich.	
"	8	"	49808 Hudsons Bay Co., Nelson, B.C.	1 "	15	C. E. Whitney & Co., San Francisco, Cal.	
"	8	"	49809 " " "	1 sack	10	Canadian Salt Co., Windsor, Ont.	
"	8	"	49810 Citizens Co-op. Assn., Nelson B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
Feb.	8	"	49815 Hunter Bros., Rossland, B.C.	1 jar.	15	" "	
"	8	"	49816 H. T. Bilkey, Rossland, B.C.	"	15	W. H. Malkin & Co., Vancouver, B.C.	
"	8	"	49817 " " "	1 sack	10	Canadian Salt Co., Windsor, Ont.	

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Insoluble.	SO ₂ .	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .			
	—Concluded.							
	p. c.	p. c.	p. c.	p. c.	p. c.			
Windsor Table Salt.	0.18	Trace	0.36	0.48	Trace		47922	
.....	0.14	"	0.48	0.35	"		47923	

H. ASHTON, ACTING INSPECTOR.

	0.26	Trace	0.65	0.50	Trace		48806	
	0.43	"	1.12	0.81	"		48807	Sulphates high.
	0.19	"	0.81	0.54	"		48808	"
"Regal" Brand.	0.28	0.95	0.64	0.37	0.45	Residue mostly MgCO ₃ .	48809	Insoluble matter high.
"	0.25	0.90	0.74	0.31	0.48	Residue Mg CO ₃ and CaSO ₄ .	48810	"
	0.19	Trace	0.59	0.41	Nil		48811	
"Shaker" Brand.	0.15	0.56	0.12	Trace	0.36	Residue mostly MgCO ₃ .	48812	Insoluble matter high.
	0.12	0.55	0.12	"	0.36	"	48813	"
	0.17	Trace	0.62	0.45	Trace		48814	
"Regal" Brand.	0.30	0.90	0.70	0.28	0.49	Residue is MgCO ₃ and CaSO ₄ .	48815	Insoluble matter high.

THOS. PARKER, INSPECTOR.

	0.16	Trace	0.47	0.35	Nil		49795	
	0.07	"	Trace	0.08	Trace		49800	
	0.25	0.98	0.71	Trace	1.04	Residue is MgCO ₃ .	49801	Insoluble matter high.
	0.12	0.28	Trace	"	0.81	"	49805	"
"Leslie Baker."	0.07	0.85	"	"	Trace	Residue is MgCO ₃ with a little CaCO ₃ .	49808	
"Windsor" ...	0.15	Trace	0.58	0.42	"		49809	
"Leslie."	0.10	"	0.58	0.33	"		49810	
	0.14	1.07	Trace	Trace	0.67	Residue is MgCO ₃ .	49815	Insoluble matter high.
	0.36	0.95	0.68	"	1.08	"	49816	"
	0.10	Trace	0.32	0.24	Trace		49817	

5 GEORGE V., A. 1915

RULLETTIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER

1913.							
Jan.	25	Table Salt.	38494 A. C. Bartig, Fairview, Vancouver, B.C.	1 pkge	15	C. W. Whitney & Co., San Francisco, Cal.	
	25	"	38495 A. MacFarlane, 1449 Broadway W., Vancouver, B.C.	1 "	15		W. H. Mallin, Vancouver, B.C.
	25	"	38496 Morrow & Deane, Yew St., Vancouver, B.C.	1 "	5	Canadian Salt Co., Windsor, Ont.	
	28	"	38497 Columbia Produce Co., 2234 Granville St., Vancouver, B.C.	1 "	5	San Francisco Salt Refining Co., San Francisco.	
Feb.	20	"	38498 Webster Bros., Granville St., Vancouver, B.C.	1 "	15	Diamond Crystal Salt Co., St. Clair, Mich., U.S.A.	
	20	"	38499 H. H. Owens, Granville and Helmken Sts., Vancouver, B.C.	1 "	10	Windsor Salt Co., Windsor, Ont.	
	20	"	38500 Walford & Roney, Granville St., Vancouver, B.C.	1 "	10	C. E. Whitney & Co., San Francisco.	

DISTRICT OF VICTORIA—

Jan.	13	Table Salt.	49283 Windsor Grocery Co., 817 Fort St., Victoria, B.C.	1 lb.	5		Simon Leiser & Co., Ltd., Victoria, B.C.
"	13	"	49286 The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	1 "	10	E. E. Whitney & Co., San Francisco, Cal.	
"	14	"	49290 Dixie H. Ross & Co., 1317 Govt. St., Victoria, B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
"	14	"	49294 Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	1 "	10	"	
"	15	"	49296 Copas & Young, 631 Fort St., Victoria, B.C.	1 "	10	Canadian Salt Co., Windsor, Ont.	
"	15	"	49298 H. O. Kirkham & Co., 741 Fort St., Victoria, B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
"	15	"	53501 Acton Bros., 1317 Douglas St., Victoria, B.C.	1 "	5	The Samia Salt Co., Ltd., Sarnia, Ont.	
"	15	"	53503 H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	1 "	5	Windsor Salt Co., Liverpool, Eng.	
"	15	"	53505 Woods & White, 1309 Gladstone Ave., Victoria, B.C.	1 "	15	Diamond Crystal Salt Co., St. Clair, Mich.	
"	15	"	53507 Wm. Marshall, 1422 Fort St., Victoria, B.C.	1 "	10	Canada Salt Co., Windsor, Ont.	

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					Remarks.	No. of Sample.	Remark and Opinion of the Chief Analyst.
	Moisture.	Insoluble.	SO ₂ .	Lime (CaO).	Magnesia (as Chloride) MgCl ₂ .			
J. F. POWER, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
	0 15	1 08	0 26	0 45	Trace	Residue mostly MgCO ₃ .	38494	Insoluble matter high.
	0 30	1 13	0 64	0 32	0 42	Residue is CaSO ₄ and MgCO ₃ .	38495	"
	0 18	Trace	0 58	0 44	Nil		38496	
	0 06	Nil	0 05	0 07	Trace		38497	
	0 14	0 67	Trace	Trace	0 40	Residue is CaSO ₄ and MgCO ₃ .	38498	Insoluble matter high.
	0 22	Trace	0 61	0 46	Trace		38499	
"Leslie's" Table Salt.	0 00	"	0 15	0 15	Nil		38500	
D. O'SULLIVAN, INSPECTOR.								
	0 29	Trace	0 88	0 60	Trace		49283	Sulphates high.
"Leslie" Salt.	0 10	"	Trace	Trace	"		49286	
	0 10	"	0 27	"	"		49290	
	0 09	"	0 19	0 14	"		49294	
"Windsor" Table Salt.	0 17	"	0 84	0 47	"		49296	Sulphates high.
"Leslie" Salt	0 08	"	0 18	0 14	"		49298	
"Beaver" Brand Salt.	0 14	"	0 50	0 39	"		53501	
	0 24	"	0 87	0 57	"		53503	Sulphates high.
	0 16	0 68	0 13	Trace	"	Residue is MgCO ₃ .	53505	Insoluble matter high
"Windsor" Table Salt.	0 21	Trace	0 56	0 42	Nil		53507	

APPENDIX N

BULLETIN No. 271 -MUSTARD.

OTTAWA, November 11, 1918.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I have the honour to hand you a report upon 167 samples of mustard purchased throughout Canada in February, March and April of this year.

It has not yet been found possible to establish standards for this article. Our last systematic inspection was made in 1909, and the results are published as Bulletin No. 176.

From the preface to this Bulletin, I quote the following:—

‘In Bulletin No. 19, the late Chief Analyst directs attention to the need of definite standards for mustard; and suggests the adoption of a minimum limit of 30 per cent fixed oil for genuine mustard, and of 22 per cent for compound mustard.

‘The importance of legalizing a definition of mustards is undeniable, and until this is done, I find it quite impossible to declare adulteration in any of the extremely variable samples, sold under this name.

‘That such definition should depend mainly upon a percentage of fixed oil in the article, is not so clear. The fixed oil of mustard is present in mustard seeds (both black and white) to the extent of about 25 per cent; and the sifted farina of mustard contains this oil to about 35 per cent or slightly higher. (Piesse and Stansell; The Analyst, 1880, p. 161.)

‘But the value of mustard as a condiment does not depend upon the content of fixed oil. White mustard, which *per se*, has little condimental value, contains as much fixed oil as black mustard. Nor did the late Chief Analyst suggest the determination of fixed oil in mustard as being itself directly an element of value in the condiment, but rather as a means of ascertaining the amount of foreign material present in admixtures. This added material is usually starch or turmeric, and is practically fat free.

‘ Since the fixed oil in mustard seed is fairly constant; the suggestion to make the percentage of fixed oil in mustard flour a basis for calculating the amount of foreign matter added is a reasonable one, provided that mustard seed is always ground in its natural state, i.e., without removal of any portion of the fixed oil. This, however, is not the case. The oil greatly interferes with the pulverizing of the seed, and over 75 per cent of it may be removed by pressure before grinding, so that estimation of the fixed oil in the finished product, affords no trustworthy basis for calculation as to foreign matter added. The fixed oil of mustard is a bland oil, applicable to various dietetic purposes, but quite devoid of such condimental properties as are valued in mustard.

‘ The characteristic pungency of mustard is due to a volatile oil, only traces of which exist in the dry mustard, but which is developed, by the action of a ferment (myrosin) upon potassium myronate, in the presence of water. It is only upon mixing mustard with water that the pungent flavour is developed. Potassium myronate is present to the extent of about 1.5 per cent in black mustard seed, and is practically absent from white mustard. This latter contains only traces of volatile oil as such, while about half of one per cent is present in the black seed. It follows, from what has been said, that the better way of valuing mustard, would be by direct estimation of its volatile oil, after a treatment converting potassium myronate into this last.

‘ It is found in practice, that although the white mustard seed contains no potassium myronate, its presence in admixture with the black seed assists in the generation of volatile oil from the latter; and for this reason the two varieties are ground together. This is due to the fact that a ferment (myrosin) whose presence determines the conversion of potassium myronate into volatile oil of mustard, is more largely present in white than in black mustard, although the glucoside (*sinigrin*) upon which it acts, to develop the volatile oil is practically absent from white mustard. A glucoside (Sinalbin) exists in white mustard, which, when acted upon by water in presence of myrosin, yields an oil (Sinalbin mustard oil) which has the pungent, burning taste, and vesicating properties of the volatile oil of black mustard; but this oil is only slightly volatilized with steam, and its presence does not materially interfere with the estimation of volatile mustard oil. (Allylisothiocyanate.)

‘ From the work of Piesse and Stansell already quoted, F. Sutton (Allen’s Commercial Organic Analysis; vol. III, part 3, p. 116); Schlicht (Zeits. Anal. Chem. XXX. 661), and others, I am of opinion that the determination of volatile oil of mustard is practicable as a means of assaying commercial mustard; and I hope to investigate this matter more fully at an early date.

‘ The following definition of mustard has been adopted by the United States Department of Agriculture (Circular No. 13, Dec. 20, 1904, p. 11):—

‘ “ Ground Mustard is a powder made from mustard seed, with or without the removal of the hulls and a portion of the fixed oil, and contains not more than two and five-tenths (2.5) per cent of starch and not more than eight (8) per cent of total ash.” ’

‘ This definition leaves much to be desired, as it makes no reference to the component (volatile oil) upon which the real value of ground mustard depends, whether considered as a condiment, or as a vesicant.

‘ It will be seen on looking through the tables in this report, that very few samples of mustard found on the Canadian Market are free from starch and turmeric. Nor is

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it to be understood that the addition of starch and turmeric is made for purposes of fraud. Certain brands of this condiment, which have been on the world's markets for generations, and have received recognition and honours at International Exhibitions, are avowedly mixtures of mustard farina with other materials. The public have approved of these compounds; and other manufactures have, on this account, been led to imitate them. It may be, as alleged by some makers, that the presence of starchy matters is necessary, to give better keeping quality to the article, which without starch, tends to become lumpy and sticky; that turmeric is desirable to give a pleasing colour to mustard, especially when mixed with water for the table; that the removal of a large percentage of the fixed oil is necessary to permit of satisfactory grinding and sifting. On the other hand, it is claimed that the seeds of white mustard although not possessed of the pungent properties essential to mustard as a condiment, contain the finer and distinctive flavours of mustard, and are as necessary to the production of a desirable condiment as the black mustard. And further that even the same variety of seeds exhibits so great differences in crops of different years that it is impossible to make satisfactory blends except under the guidance of an expert, who is guided rather by the cultivated senses of taste, and smell, than by varietal differences in the seeds themselves. However this may be, it is certain that mustard should be sold for what it is; and that the presence of added matters should be announced on the label.

'The question of the amount of added matters which may be permitted is serious, from the point of view of the use of mustard as a domestic remedy, in blisters, poultices, emetics, &c. The mustard of the pharmacopeias permits of no admixture. Mustard as a condiment is another matter, and the public should learn to recognize the distinction between the two. Condimental mustard may be regarded as a substitute, in emergency, for the pharmacopœal mustard, but by no means to be confused with this last.

'But even as a condiment, there is a degree of dilution which amounts to fraud. The fixing of limits defining mustard for condimental purposes is under consideration. The problem is not a simple one, and I am not yet in a position to submit a formal solution.'

I do not find it possible to add anything of importance to the above, which states very fairly the position of our knowledge regarding mustard.

The analytical results presented in the accompanying report are of value as furnishing additional data for the defining of standards for commercial or condimental mustard.

An effort will be made to have such standards prepared without delay, and meanwhile I would respectfully advise the publication of this report as Bulletin No. 271.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.							
Mar. 6	Mustard.	46926	National Drug Co., Halifax, N.S.	1 lb.	30	J. & J. Coleman, London, Eng.	Manufacturers
" 10	"	46927	A. J. Baker, Halifax, N.S.	1/2 "	30	Gorman & Eckert, London, Ont.	"
" 10	"	46928	T. J. Brown, Halifax, N.S.	1/2 "	23	Unknown	Morrison & Williams, Halifax, N.S.
" 10	"	46929	W. J. Hopgood & Son, Halifax, N.S.	1/2 "	30	J. & J. Coleman, London, Eng.	John Tobin & Co., Halifax, N.S.
" 11	"	46930	E. W. Crease & Son, Halifax, N.S.	1/2 "	25	Keens, London, Eng.	Manufacturers agent
" 12	"	46931	Morrison & Williams, Halifax, N.S.	1/2 "	15	E. E. Durkee & Co., New York,	Manufacturers
" 19	"	46932	De Wolf & Lan-ont. Kentville, N.S.	1/2 "	38	Keens, London, Eng.	R. B. Section, Hal- fax, N.S.
" 24	"	46933	Black & Co., Truro, N.S.	1/2 "	33	J. & J. Coleman, London, Eng.	Manufacturers
" 27	"	46934	C. McNab & Co., Dart- mouth, N.S.	1/2 "	22	J. P. Mott, Halifax, N.S.	Manufacturer
" 27	"	46935	G. A. Orman, Dart- mouth, N.S.	1/2 "	23	Unknown	Bauld Bros., Ltd., Halifax, N.S.

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 27	Mustard.	46379	L. A. Hazard, Char- lottetown, P.E.I.	1 lb.	27	Colman's, London, Eng.	
" 28	"	46380	A. Gates & Co., Char- lottetown, P.E.I.	1/2 "	45	J. & J. Coleman, London, Eng.	
Mar. 3	"	46381	Reddin Bros., Charlotte- town, P.E.I.	1/2 "	30	Keens, London, Eng.	Lyman Sons & Co., Ltd., Montreal.
" 5	"	46382	S. Beaton, Bonshaw, P. E.I.	1/2 "	30	Scott's Extract Co., St. John, N.B.	
" 5	"	46383	Lord Co., Cape Tra- verse, P.E.I.	1/2 "	24	Unknown	
" 6	"	46384	R. H. Cameron, Cra- paul, P.E.I.	1/2 "	30	G. E. Barbour & Co., St. John, N.B.	
" 6	"	46385	P. D. Hagan, Tyrone, P.E.I.	1/2 "	30		Carvell Bros., Char- lottetown, P.E.I.
April 23	"	46386	Sinclair & Stewart, Sum- merside, P.E.I.	1/2 "	30	Swartz & Sous, Hal- ifax, N.S.	

DISTRICT OF NEW BRUNSWICK—

Feb. 25	Mustard	50555	H. W. Cole, Ltd., St. John, N.B.	3 tins.	45	J. & J. Colman, Ltd., London, Eng.	
" 25	"	50556	Dearborn & Co., Ltd., St. John, N.B.	1 lb.	21	Vendors	
" 27	"	50557	Baird & Peters, St. John, N.B.	1/2 "	12	Colburn, Philadel- phia, Pa.	
" 27	"	50558	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	1/2 "	25	G. S. Dunn & Co., Hamilton, Ont.	

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MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		

R. J. WAUGH, INSPECTOR.

	p. c.		
	4.1	Traces	46926
	3.4	28.1 Wheat starch	46927
	4.7	11.7 Traces wheat starch..	46928
	3.8	6.8 " "	46929
	4.0	8.1 " "	46930
	5.1	13.7 Turmeric.	46931
	4.0	6.8 Traces wheat starch .	46932
	4.1	11.8 A small amount wheat starch.	46933
	2.2	50.6 Wheat starch, turmeric.	46934
	4.1	22.5 " "	46935

WM. A. WEEKS, INSPECTOR.

	4.6	Traces	46379
	3.8	5.0 Traces wheat starch	46380
	2.7	22.4 Wheat starch.....	46381
	4.3	5.6 Traces wheat starch	46382
	2.1	34.6 Wheat starch, turmeric	46383
	4.3	5.0	46384
	1.8	22.4 Wheat starch, traces turmeric..	46385
	2.9	51.8 Wheat starch	46386

J. C. FERGUSON, INSPECTOR.

Double Superfine. .	3.7	6.8 Traces wheat starch	50555
.....	4.0	15.6 " turmeric	50556
Sold as Compound, Eng- lish Brand	2.3	48.7 " "	50557
.. ..	4.8	21.2 " "	50558

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BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1913.							
Mar. 7	Mustard..	50559	W. A. Simonds, St. John, N.B.	3 lb.	45	J. Farrow & Co., Peterborough, Eng.	
" 10	" ..	50560	M. E. Grass, St. John, N.B.	3 "	30	Unknown.....	Unknown
Apr. 7	" ..	50561	G. E. Barbour & Co. Ltd., St. John, N.B.	3 "	21	Vendors.....	
" 18	" ..	50562	H. N. Dickinson, Perth, N.B.	3 "	30	G. E. Barbour & Co. Ltd., St. John, N.B.	
" 23	" ..	50563	J. A. Davidson, Sussex, N.B.	3 "	25	Scotts Extract Co., St. John, N.B.	
" 24	" ..	50564	H. T. Brewster, Moncton, N.B.	3 "	27	.. .. .	Reed & Co., Ltd., Moncton, N.B.

DISTRICT OF QUEBEC—

Feb. 24	Mustard..	37138	Benjamin Crepeault, 68 Rue Cremaise, Montcalmville.	42 "	18	J. & J. Coleman, London, Eng.	J. B. Reneaud & Cie., Quebec.
" 25	" ..	37139	F. Racine, 66 Rue Cremaise, Montcalmville.	42 "	24	" ..	N. Turcot & Cie., Quebec.
" 26	" ..	37140	Jos. Brulot, 11 Chemin, St. Foie.	42 "	30	" ..	Boivin & Grenier, Quebec.
" 27	" ..	37141	Jos. Bedard, 113 2me. Rue Stadacona, Quebec.	42 "	30	" ..	Unknown ..
" 27	" ..	37142	Francois Cliche, 4 2m. Rue 111 Stadacona, Quebec.	42 "	22	" ..	Quebec Preserving Co., Quebec.
Mar. 3	" ..	37143	F. Grenier, 53 Rue Scott, Quebec.	42 "	21	" ..	Turcot & frere, Quebec.
" 3	" ..	37144	F. Delisle, 60 Rue Scott, Quebec.	42 "	18	" ..	Langlois & Paradis, Quebec.
" 3	" ..	37145	Jos. F. Goslin, 50 Rue D'Orchester, Quebec.	42 "	45	" ..	Joseph & Co., Quebec
" 4	" ..	37146	Charles Martel, 49 Rue D'Antigny, Quebec.	42 "	20	" ..	J. B. Reneaud & Cie., Quebec.
" 4	" ..	37147	A. Roy, 112½ Rue Scott, Quebec.	42 "	21	" ..	Turcot & frere, Quebec.

DISTRICT OF THREE RIVERS—

Mar. 17	Mustard.	57215	G. H. Read, St. Felix de Valois.	3 lb	45	Keens, London, Eng.	
" 17	" ..	57218	Thomas Guibord, St. Felix de Valois.	3 "	30	" ..	
" 17	" ..	57221	Louis Enos, St. Felix de Valois.	3 "	15		Jos. Dufresne, Joliette, Que.
" 17	" ..	57224	Jos. Mosseau, St. Felix de Valois.	3 pkgs	30	Keens, London, Eng.	

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MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.	
				No. of Sample

Concluded.

	p. c.			
Farrows A. 1. Double	4.1	11.2	Traces wheat starch, turmeric.	50559
Superfine.	3.9	26.8	"	50560
"	3.9	Traces.	"	50561
Acorn Brand	4.1	"	"	50562
"	4.5	6.7	"	50563
"	4.9	7.2	"	50564

F. X. W. E. BELAND, INSPECTOR.

	3.6	17.5	Wheat starch, turmeric	37138
	3.6	15.6	"	37139
	3.6	18.1	"	37140
	3.8	10.6	Small amount wheat starch	37141
	3.5	20.2	Wheat starch, turmeric.	37142
	3.5	20.2	"	37143
	3.5	16.8	"	37144
	3.8	12.5	Small amount wheat starch	37145
	4.0	13.1	Small amount wheat starch, traces turmeric.	37146
	1.8	17.5	Wheat starch, turmeric	37147

DR. V. P. LAVALLEE, INSPECTOR.

	3.1	45.1	Wheat starch, turmeric	57215
	4.1	6.2	Traces wheat starch	57218
	2.9	30.6	Wheat starch, turmeric	57221
	4.1	11.2	Traces wheat starch, turmeric	57224

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BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS—

1913.							
Mar. 18	Mustard	57228	Ernest Asselin, St. Felix de Valois.	$\frac{3}{4}$ lb.	30	Keens, London, Eng.	...
" 19	"	57232	Esdras Asselin, St. Felix de Valois.	$\frac{3}{4}$ "	25	...	Jos. Dufresne, Joliette, Que.
19	"	57235	Louis Bellerose, St. Felix de Valois.	$\frac{3}{4}$ "	24	Keens, London, Eng.	...
22	"	57237	Arthur Guilleault, Joliette.	$\frac{3}{4}$ "	45	"	"
22	"	57240	C. Barrette, Joliette.	$\frac{3}{4}$ "	42	"	"
22	"	57244	Magnan Frères, Joliette.	$\frac{3}{4}$ "	45	"	"

DISTRICT OF EASTERN TOWNSHIPS—

Mar. 10	Mustard.	1513	P. Thibault, Victoria-ville.	3 pkgs	39	Marratte, Leblanc & Cie, Montreal.	...
" 10	"	1514	E. Lambert, Victoria-ville.	3 "	45	...	...
12	"	1515	F. X. Thivierge, Beauceville.	$\frac{3}{4}$ lb.	18	...	Unknown.
" 13	"	1516	Ferd. Pepin, Ste. Marie.	$\frac{3}{4}$ "	15	...	"
" 17	"	1517	Aug. Provencher, Windsor Mills.	$\frac{3}{4}$ "	19	Pure Gold Mfg. Co., Toronto.	...
" 18	"	1518	J. O. Bertrand, Coaticook.	$\frac{3}{4}$ "	28	...	Unknown.
" 19	"	1519	Bernard & Cie, Sherbrooke.	$\frac{3}{4}$ "	30	...	"
" 19	"	1520	H. Chamberlain, Magog.	$\frac{3}{4}$ "	23	...	Forbes Bros., Montreal.
April 15	"	1521	Mag. Martel, Acton vale.	$\frac{3}{4}$ "	19	...	...
" 17	"	1522	L. E. Thibaudeau, Plessisville.	$\frac{3}{4}$ "	18	The F. F. Dalley Co., Ltd., Hamilton.	...

DISTRICT OF MONTREAL—

Mar. 11	Mustard.	51256	E. Tessier, 982 St. Catharine E., Montreal.	$\frac{3}{4}$ lb.	28	...	F. G. Payette, Montreal.
" 11	"	51257	L. Mauer, 180 Dorchester west, Montreal.	$\frac{3}{4}$ "	30	W. G. Dunn & Co., Hamilton, Ont.	...
" 11	"	51258	Dr. Drustein, 100 St. Catharine west, Montreal.	$\frac{3}{4}$ "	23	...	...
" 12	"	51259	E. Martin, 203 Laurier Ave. west, Montreal.	$\frac{3}{4}$ "	25
" 12	"	51260	E. Gaudy, 31 Laurier Ave. west, Montreal.	$\frac{3}{4}$ "	25

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MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid Inversion.)	Microscopical Examination.		

Concluded.

	p. c.			
	3.0	28.1	Wheat starch, turmeric	57228
	2.9	31.8	" "	57232
	2.8	31.8	" "	57235
	4.0	11.2	Traces wheat starch	57237
	3.8	11.8	" "	57240
	4.0	8.7	" "	57244

J. C. ROULEAU, INSPECTOR.

	4.4	30.6	Wheat starch, turmeric	1513
	4.0	Traces	Traces wheat starch.	1514
	3.5	15.6	Wheat starch, traces turmeric	1515
	3.5	17.5	" "	1516
	2.8	43.2	" "	1517
	1.6	52.5	" "	1518
	0.4	8.1	Traces wheat starch, turmeric	1519
	3.2	48.1	Wheat starch, turmeric	1520
	4.5	30.6	" "	1521
	2.6	44.3	" "	1522

J. J. COSTIGAN, INSPECTOR.

	3.2	49.9	Wheat Starch, turmeric	51256
			" "	
	3.1	36.8	" "	51257
	2.4	48.7	" "	51258
	2.8	30.0	" "	51259
Labelled Fine Mustard Compound.	2.3	33.7	" "	51260

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BULLETIN No. 271—

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				Quantity.	Cost.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL

1913.

Mar. 12	Mustard.	51261	O. Saussegret, 2011 Clark St., Montreal.	$\frac{3}{4}$ lb.	30		
12	"	51262	J. A. Carriere, 91 Laurier Ave. east, Montreal.	$\frac{3}{4}$ " "	30		Hudon, Hebert & Cie, Montreal.
12	"	51263	J. M. Lefebvre, 166 Laurier Ave., Montreal.	$\frac{3}{4}$ " "	30		
12	"	51264	Pelletier et frere, 1030 Henri Julian Ave., Montreal.	$\frac{3}{4}$ " "	25		
12	"	51265	L. P. Deslaires, 1750 Cadieux St., Montreal.	$\frac{3}{4}$ " "	25		

DISTRICT OF VALLEYFIELD—

Mar. 13	Mustard.	51336	W. Beaudry, Valleyfield, P.Q.	$\frac{3}{4}$ lb.	27		
13	"	51337	J. Z. Daoust, Valleyfield, P.Q.	$\frac{3}{4}$ " "	30		
19	"	51338	E. Z. Labrosse, Vankleek Hill, Ont.	$\frac{3}{4}$ " "	30		
19	"	51339	P. T. McLaurin, Vankleek Hill, Ont.	$\frac{3}{4}$ " "	18		
19	"	51340	John Wilson, Vankleek Hill, Ont.	$\frac{3}{4}$ " "	20		
20	"	51341	L. P. Pattee, Hawkesbury.	$\frac{3}{4}$ " "	25	J. V. Boudrais, Montreal.	
20	"	51342	A. M. Steele, Hawkesbury.	$\frac{3}{4}$ " "	27	J. Barron, Lachute, P.Q.	
20	"	51343	F. X. Bertrand, Hawkesbury.	$\frac{3}{4}$ " "	19		
24	"	51344	A. Markson, Alexandria, Ont.	$\frac{3}{4}$ " "	20		

DISTRICT OF OTTAWA—

Feb. 22	Mustard.	51713	Thos. Stevens, Carleton Place.	$\frac{3}{4}$ lb.	25	Pure Gold Mfg. Co., Toronto.	Manufacturers
22	"	51714	Alex. Sibbitt, Carleton Place.	$\frac{3}{4}$ " "	26	"	"
22	"	51715	Bowland & McRostie, Carleton Place.	$\frac{3}{4}$ " "	30	Unknown	Robertson Nicolle, Kingston.
24	"	51716	Jas. MacPherson, Arnprior.	$\frac{3}{4}$ " "	30	Pure Gold Mfg. Co., Toronto.	Manufacturers
25	"	51717	J. McDermid, Finch	$\frac{3}{4}$ " "	22	Unknown	Stedman Bros., Brantford, Ont.
25	"	51718	J. E. Cook, Winchester	$\frac{3}{4}$ " "	35	"	Unknown

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				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
Feb. 25	Mustard.	51719	A. Sweet & Co., Winchester.	$\frac{1}{4}$ lb.	23	White Swan S. & C. Co., Toronto.	
" 27	"	51720	E. Ackland, Creighton St., Ottawa.	$\frac{1}{4}$ "	23	Provost & Allard, Ottawa.	
" 27	"	51766	Metard & Co., St. Patrick St., Ottawa.	$\frac{1}{4}$ "	15	H. N. Bate & Sons, Ottawa.	
" 27	"	51767	S. Dignard, St. Patrick St., Ottawa.	$\frac{1}{4}$ "	20	S. J. Major, Ltd., Ottawa.	

DISTRICT OF KINGSTON—

Mar. 10	Mustard.	45768	J. Paisley, Napanee	3 tins	45	Keens, London, Eng.	
" 10	"	45769	H. W. Kelly, Napanee	$\frac{3}{4}$ lb.	24	Todhunter & Mitchell, Toronto.	
" 10	"	45770	Newman Livingston, Napanee	$\frac{3}{4}$ "	30	F. Newman, Picton.	
" 10	"	45771	G. W. Boyes, Napanee	3 tins	25	J. M. Lowes Co., Toronto.	
Feb. 20		53052	W. J. Lee, Kingston	3 "	45	Keens, London, Eng.	
" 20	"	53053	W. J. Arniel, Kingston	$\frac{3}{4}$ lb.	24	W. G. Craig, Kingston.	
" 20	"	53054	W. J. Nesbitt, Kingston	$\frac{3}{4}$ "	20	J. M. Lowes Co., Ltd., Toronto.	
" 21	"	53055	Jno. Gordon, Kingston	3 tins	45	Keens, London, Eng.	
" 21	"	53056	W. E. Hopkinson & Bro., Kingston	$\frac{3}{4}$ lb.	30	White Swan Co., Toronto.	
" 25	"	53060	W. D. Stephens, Port Hope	3 tins	45	Keens, London, Eng.	

DISTRICT OF TORONTO—

Feb. 27	Mustard	57011	J. Everingham, 185 Wilton Ave., Toronto.	$\frac{1}{4}$ lb.	10	White Swan Mills, Toronto.	
" 28	"	57012	R. C. Soules, 234 De Grasse St., Toronto.	$\frac{1}{4}$ "	8	Dalton Bros., Toronto.	
" 28	"	57013	A. Devlin, 76 Ossington Ave., Toronto.	$\frac{1}{4}$ "	8	Unknown	
Mar. 4	"	57014	P. Conlin, 493 Parliament St., Toronto.	$\frac{1}{4}$ "	10	Todhunter, Mitchell & Co., Toronto.	
" 4	"	57015	J. Whitelaw & Son, 874 Bathurst St., Toronto.	$\frac{1}{4}$ "	10	Unknown	
" 5	"	57016	E. Broad, 468 Pape Ave., Toronto.	$\frac{1}{4}$ "	8	Dalton Bros., Toronto.	
" 5	"	57017	H. Kelly, 1232 College St., Toronto.	$\frac{1}{4}$ "	6	Pure Gold Mfg. Co., Ltd., Toronto.	
" 6	"	57018	G. W. Blanchard, 2014 Queen St. east, Toronto	$\frac{1}{4}$ "	7	The J. M. Lowes Co., Ltd., Toronto.	

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MUSTARD.

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	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.	

Concluded.

	p. c.			
.....	4.9	8.0	Small amount wheat starch, turmeric.	51719
.....	3.3	60.0	Wheat starch, turmeric ..	51720
.....	4.7	51.8	" "	51766
.....	5.1	56.2	" "	51765

JAS. HOGAN, INSPECTOR.

.....	4.0	5.9	.....	45768
.....	3.0	35.5	Wheat starch, traces turmeric ..	45769
.....	2.7	23.0	Wheat starch	45770
.....	2.2	22.5	Wheat starch, turmeric ..	45771
.....	4.1	6.2	Traces wheat starch	53052
.....	5.0	50.0	Wheat starch, turmeric ..	53053
.....	4.7	51.8	" "	53054
.....	4.1	8.1	Traces wheat starch, turmeric	53055
.....	3.6	53.1	Wheat starch, turmeric ..	53056
.....	4.2	8.3	Traces wheat starch.	53060

H. J. DAGER, INSPECTOR.

Sold as pure ..	4.7	33.7	Wheat Starch, turmeric ..	57011
.....	2.7	33.1	" "	57012
.....	2.7	25.0	" "	57013
.....	2.3	36.8	" "	57014
.....	1.9	43.1	" "	57015
.....	2.6	35.5	" "	57016
.....	1.5	48.7	" "	57017
.....	1.7	46.2	" "	57018

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BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1913.							
Mar.	7	Mustard	57019 W. J. Cooper, 234 Royce Ave., Toronto.	1 lb.	7		T. Kinnear, Toronto
	7	"	57020 Baker & Linton, 1980 Dundas St. west, Toronto.	1 "	7		White Swan Mills, Toronto.

DISTRICT OF HAMILTON—

April	9	Mustard	57111 James Bros., 431 Colborne St., Brantford.	1 lb.	8	F. F. Dalley Co., Hamilton.	
	9	"	57112 J. E. Church, 44 Mary St., Brantford.	1 "	8		Unknown
	10	"	57113 John Walter, Paris, Ont.	1 "	8		White Swan Cereal Co., Toronto.
	10	"	57114 Rehder & Co., Paris, Ont.	1 "	10		Unknown
	14	"	57115 Jno. P. Brown, Dunnville, Ont.	1 "	10		Balfour, Smye & Co., Hamilton.
	14	"	57116 J. A. Bicknell, Dunnville, Ont.	1 "	8		Unknown
	17	"	57117 James Foley, 21 King St., St. Catharines.	1 "	8	Unknown	
	17	"	57118 Bradley, Nickolls, Ellis & St. Clair, Niagara Falls.	1 "	10		Unknown
	18	"	57119 A. Hess, Hess and Market Sts., Hamilton.	1 "	10		
	19	"	57120 D. J. Donovan, Hunter and Walnut Sts., Hamilton.	1 "	10	F. F. Dalley Co. Ltd., Hamilton.	

DISTRICT OF WINDSOR—

Mar.	3	Mustard	47948 Bradley & Son, Chatham, Ont.	3 pkgs	30	I. X. L. Spice Mills, London, Ont.	
	"	"	47949 Alfred Deloge, Chatham, Ont.	1 lb.	20		Dalley Co., Hamilton.
	3	"	47951 Jas. Paul, Chatham, Ont.	3 pkgs	45	Keens, London, Eng.	
	3	"	47952 J. D. Stark, Chatham, Ont.	1 lb	30		F. F. Dalley Co., Hamilton.
	4	"	47954 Wm. Anderson, Chatham, Ont.	3 pkgs	45	Keens, London, Eng.	
	4	"	47956 H. A. Andrew, Chatham, Ont.	1 lb.			Pure Gold Mfg. Co., Toronto.
	5	"	47971 Wm. Burnie, Windsor, Ont.	1 "	25	Unknown	
	5	"	47975 A. St. Denis, Windsor, Ont.	1 "	30	Gorman Eckert Co., London, Ont.	
	6	"	47981 Lang & Moore, Essex.	3 pkgs	30	Keens, London, Eng.	
	6	"	47982 A. Raines, Essex.	1 lb.	22	Unknown	

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.	

Concluded.

	p. c.			
.....	2.6	42.5	Wheat Starch, turmeric	57019
.....	4.8	11.2	"	57020

H. J. DAGER, ACTING INSPECTOR.

.....	2.6	36.8	Wheat Starch	57111
.....	5.1	Traces	Turmeric	57112
.....	2.7	45.6	Wheat Starch	57113
Sample from a tin label- led Pure Mustard.	1.9	46.8	"	57114
" Feather " quality	4.8	42.5	"	57115
.....	2.0	48.7	"	57116
.....	2.3	45.0	"	57117
Labelled "Pure" Mustard.	1.6	53.7	"	57118
In stock purchased from previous owner.	4.7	Traces	"	57119
.....	1.0	"	Wheat Starch, turmeric	57120

JNO. TALBOT, INSPECTOR.

"Sweetheart" Brand	2.8	34.9	Wheat starch, turmeric	47948
Durham Mustard	2.8	37.5	Wheat starch, traces turmeric	47949
.....	4.1	11.8	Small amount wheat starch	47951
Labelled Dalley's Pure Mustard.	4.6	10.0	Small amount wheat starch, turmeric.	47952
.....	3.9	11.8	Small amount wheat starch	47954
.....	1.7	49.3	Wheat starch, turmeric	47956
.....	3.2	33.1	"	47971
.....	2.6	46.8	"	47975
.....	4.0	15.0	Wheat starch	47981
.....	2.7	51.8	Wheat starch, turmeric	47982

5 GEORGE V., A. 1915

BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1913.							
Feb. 21	Mustard..	48845	Blue Ribbon Ltd., Winnipeg.	3 lbs.	31	Vendors.....	
" 24	" ..	48846	Campbell Bros. & Wilson, Winnipeg.	3 "	"	Unknown ..	Unknown ..
" 25	" ..	48847	The Dyson Co., Winnipeg.	3 "	"	G. S. Dunn & Co., Hamilton.	Manufacturers ..
" 25	" ..	48848	The White Star Mfg. Co., Winnipeg.	3 pkgs.	45	Vendors.....	
" 26	" ..	48850	The Gold Standard Mfg. Co., Winnipeg.	3 "	"	" ..	
Mar. 4	" ..	48851	Moffett & Douglas Selkirk Ave., Winnipeg.	3 "	45	" ..	
" 4	" ..	48852	S. Elliott & Co., Main St. N., Winnipeg.	3 "	45	" ..	
" 4	" ..	48853	D. Campbell, Main St. N., Winnipeg.	3 "	45	" ..	
" 11	" ..	48854	T. J. Acheson & Son, Morden.	3 "	45	" ..	
" 13	" ..	48865	J. B. Coyle, Winnipeg.	3 "	45	" ..	

DISTRICT OF ROCKY MOUNTAINS—

Mar. 4	Mustard..	49832	Star Grocery, Nelson, B.C.	3 lb.	40	J. & J. Coleman, London, Eng.	
" 4	" ..	49833	" " ..	3 "	40	Climax Mfg. Co., Vancouver, B.C.	
" 4	" ..	49837	Hudson's Bay Co., Nelson, B.C.	3 "	25	J. & J. Coleman, London, Eng.	
" 4	" ..	49838	Christie & Benson, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancouver, B.C.	
" 4	" ..	49842	J. A. Irving & Co., Nelson, B.C.	3 lb.	30	" " ..	
" 7	" ..	49843	Morrin, Thompson & Co., Phoenix, B.C.	3 "	30	Kelly, Douglas & Co., Vancouver, B.C.	
" 7	" ..	49844	" " ..	3 tins.	60	J. & J. Coleman, London, Eng.	
" 17	" ..	49861	J. McIntyre & Son, Revelstoke, B.C.	3 lb.	30	Kelly, Douglas & Co., Vancouver, B.C.	
" 17	" ..	49866	L. C. Masson, Revelstoke, B.C.	3 tins.	45	Oriental Mills, Vancouver, B.C.	
April 7	" ..	49872	Polson Mercantile Co., Enderby, B.C.	3 lb.	30	Empress Mfg. Co., Vancouver, B.C.	

DISTRICT OF VANCOUVER—

Mar. 11	Mustard..	53466	H. A. Edgett & Co., Vancouver, B.C.	3 lb.	30	Keens, London, Eng.	
" 12	" ..	53467	Gruchy & Carlaw, 5th Ave. and Granville, Vancouver, B.C.	3 "	30	" " ..	
" 13	" ..	53468	T. Russell, 444 Pender St., Vancouver, B.C.	3 tins.	45	Coleman's Ltd., London, Eng.	

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Add inversion.)	Microscopical Examination.		

A. C. LARIVIERE.

	P. C.				
.....	3.6	11.2	Small amount wheat starch, turmeric.	48845	
.....	1.7	43.1	Wheat starch, turmeric.....	48846	
.....	5.5	Traces..	Traces wheat starch, turmeric..	48847	
"White Star".....	3.9	10.0	Traces wheat starch, traces tur- meric.	48848	
"Gold Standard".....	4.4	Traces..	No foreign starch present.....	48850	
"Keens".....	4.1	9.3	Traces wheat starch.....	48851	
"....."	4.1	8.7	"....."	48852	
"....."	4.0	15.0	Small amount wheat starch ..	48853	
"....."	4.0	16.8	"....."	48854	
"....."	3.9	13.1	"....."	48865	

THOS. PARKER, INSPECTOR.

.....	3.9	11.8	Wheat Starch. Turmeric. ..	49832	
.....	3.5	27.5	"....."	49833	
Keens Mustard, 2nd quality.....	2.9	26.8	"....."	49837	
.....	4.9	Traces..	.....	49838	
.....	4.2	"....."	.....	49842	
"Columbia".....	5.7	41.2	Wheat Starch. Turmeric.....	49843	
.....	4.0	15.0	"....."	49844	
"Nabob".....	5.0	46.2	"....."	49861	
"Oriental".....	3.8	37.5	"....."	49866	
.....	3.9	13.4	"....."	49872	

J. F. POWER, INSPECTOR.

2nd quality.....	2.7	29.3	Wheat Starch. Turmeric	53466	
"....."	2.6	45.6	"....."	53467	
.....	3.9	8.7	Small amount Wheat Starch ..	53468	

5 GEORGE V., A. 1915

BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1913.							
Mar. 13	Mustard..	53469	G. F. Cowley, 544 Georgia St., Vancouver, B.C.	$\frac{1}{4}$ lb.	30	Keens, London, Eng.	
" 14	" ..	53470	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Unknown	
" 14	" ..	53471	Mills & McAdam, Kitsilano, Vancouver, B.C.	$\frac{1}{4}$ "	30	Keens Ltd., London, Eng.	
" 22	" ..	53472	David Spencer, Ltd., Vancouver, B.C.	$\frac{1}{2}$ "	30	" "	
" 22	" ..	53473	Dominion Grocery, Abbott St., Vancouver, B.C.	$\frac{1}{4}$ "	30	" "	
" 22	" ..	53474	F. Filion, Carrall St., Vancouver, B.C.	$\frac{1}{2}$ "	30	Empress Mfr. Co., Vancouver, B.C.	
" 28	" ..	53475	C. A. Welsh, New Westminster, B.C.	3 tins.	40	Keens Ltd., London, Eng.	

DISTRICT OF VICTORIA—

Mar. 14	Mustard..	53546	Acton Bros., 1317 Douglas St., Victoria, B.C.	$\frac{1}{4}$ lb.	45	J. J. Colman, London, Eng.	
" 14	" ..	53548	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	$\frac{1}{4}$ "	45	" "	
" 14	" ..	53550	Wm. Marshall, Stanley Ave. and Fort St., Victoria, B.C.	$\frac{1}{4}$ "	45	" "	
" 18	" ..	53552	Copas & Young, 631 Fort St., Victoria, B.C.	$\frac{3}{4}$ "	45	Keen Robertson Co., Ltd., London, Eng.	
" 18	" ..	53554	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	$\frac{1}{4}$ "	30	" "	
" 18	" ..	53557	Dixie H. Ross Co., 1317 Govt. St., Victoria, B.C.	$\frac{1}{4}$ "	45	" "	
" 18	" ..	53558	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	1 $\frac{1}{2}$ "	30	McLaren Cheese Co., Ltd., Toronto.	
" 18	" ..	53559	H. O. Kirkham, 741 Fort St., Victoria, B.C.	1 $\frac{1}{2}$ "	75	Unknown	
" 19	" ..	53561	W. A. Jameson Coffee Co., 75 Broughton St., Victoria, B.C.	1 $\frac{1}{2}$ "	30	G. S. Dunn & Co., Hamilton.	
" 19	" ..	53563	Pioneer Coffee and Spice Mills, 641 Pembroke St., Victoria, B.C.	1 $\frac{1}{2}$ "	20	" "	

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		

Concluded.

	p. c.			
2nd quality	2.7	33.7	Wheat Starch	53469
"Coleman's" brand. . .	4.1	44.3	"	53470
2nd quality	2.9	31.2	"	53471
"	2.8	28.1	"	53472
"	3.0	43.7	"	53473
"	2.8	33.7	"	53474
This is an admixture in which no injurious in- gredient is used.	4.1	13.7	"	53475

D. OSULLIVAN, INSPECTOR.

Cohnan's	4.0	Traces..	Traces wheat starch, no tur- meric.	53546
"	4.0	11.2	Small amount wheat starch, turmeric.	53548
"	4.0	12.5	Small amount wheat starch ..	53550
"	4.3	Traces..	.....	53552
Keens.	2.8	34.3	Wheat starch, turmeric.....	53554
Farrow & A. I.	4.1	6.8	"	53557
"	3.2	8.0	Turmeric	53558
Durham	1.7	36.2	Wheat starch, turmeric	53559
"	4.9	14.3	Traces wheat starch, turmeric..	53561
"	1.4	60.0	Wheat starch, turmeric.....	53563

APPENDIX O

BULLETIN No. 272—LARD.

OTTAWA, November 18, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I have the honour to present a report upon 182 samples of lard, as purchased throughout Canada in February, March, and April of this year.

The result of analysis may be summarized as follows:—

	Samples.
Genuine.....	169
Contain excess water.....	3
Doubtful.....	1
Adulterated.....	8
Sold as compound.....	1
Total	182

Adulteration consists in all cases, of added foreign fat, of vegetable origin. This addition is not harmful to health, but constitutes adulteration under Section 3 (b) inasmuch as "an inferior or cheaper substance has been substituted wholly or in part for the article."

The excess of water in three samples is so slightly above the permitted limit (1 per cent) that I do not think it necessary to declare the samples adulterated except in a technical sense.

One sample I regard as doubtful (No. 53485) because of the high iodine number. This, however, while justly giving rise to doubt of genuineness, is yet insufficient to furnish conclusive proof of adulteration.

The sample sold as compound, should not have been accepted by our inspector.

A collection of samples of lard, and of substitutes for lard, is now in hand. On reporting this collection at a later date, I shall take occasion to review in greater detail, the matter of lard, and substitutes therefor, as now found on the Canadian market.

I beg to recommend publication of this report as Bulletin No. 272.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915
BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.							
Mar. 12	Lard.	46916	P. T. Shea, Halifax, N.S.	1½ lb.	30	Morrell & Co., Ottawa, U.S.A.	Mfrs.
" 12	"	46917	Wentzells Ltd., Halifax, N.S.	1½ "	23	Swift & Co., Chicago, U.S.A.	"
" 12	"	46918	G. Hirschfeld, Halifax, N.S.	1½ "	25	Vendor	"
" 12	"	46919	T. Spry, Halifax, N.S.	1½ "	25	"	"
" 13	"	46920	A. L. Doyle & Co., Halifax, N.S.	1½ "	25	Veudors	"
" 13	"	46921	J. A. Leaman & Co., Halifax, N.S.	1½ "	25	"	"
" 13	"	46922	Dillon Bros., Halifax, N.S.	1½ "	25	F. W. Fearman, Hamilton, Ont.	Mfr.
" 19	"	46923	DeWolf & Lamont, Kentville, N.S.	1½ "	23	Swift & Co., Chicago, U.S.A.	R. B. Seeton & Co., Halifax, N.S.
" 22	"	46924	S. Thomson, Dartmouth, N.S.	1½ "	25	F. W. Fearman & Co., Hamilton, Ont.	Mfrs.
" 24	"	46925	Truro Market, Truro, N.S.	1½ "	25	Wm. Davies, Toronto.	Mfr.

DISTRICT OF PRINCE EDWARD ISLAND—

Mar. 4	Lard	46369	R. T. Maddigan, Charlottetown, P.E.I.	1½ lbs.	30	Davies & Fraser, Ch'Town, P.E.I.	"
" 5	"	46370	S. Beaton, Bonshaw, P.E.I.	1½ "	30	"	"
" 5	"	46371	Lord Co., Cape Traverse, P.E.I.	2 "	36	The Wm. Davies Co., Ltd., Toronto.	"
" 6	"	46372	P. D. Hogan, Tyrone, P.E.I.	1½ "	30	Davies & Fraser, Ch'Town, P.E.I.	"
April 25	"	46373	J. A. Hynes, Kensington, P.E.I.	1½ "	30	Morris & Co., Chicago.	"
" 25	"	46374	James Kennedy, Kensington, P.E.I.	1½ "	30	Patrick McGuire, Clinton, P.E.I.	"
" 25	"	46375	Sinclair & Stewart, Summerside, P.E.I.	1½ "	27	Mathews, Laing, Ltd., Montreal.	"

DISTRICT OF NEW BRUNSWICK—

Feb. 25	Lard	50545	John Hopkins, St. John, N.B.	1½ lbs.	30	Vendor	"
" 25	"	50546	F. S. Williams Co., Ltd., St. John, N.B.	2 "	40	Gunn's, West Toronto.	"
Mar. 13	"	50547	G. B. Taylor, St. John, N.B.	1½ "	30	Vendor	"

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter. Read- ing at 40°C.	Iodine Number (Hanus).		

R. J. WAUGH, INSPECTOR.

D. C.						
.....	Traces.....	51	.....	46916	Genuine.	
.....	"	51.5	.....	46917	"	
.....	"	50.5	.....	46918	"	
.....	"	50	.....	46919	"	
.....	"	49.5	.....	46920	"	
.....	"	51	.....	46921	"	
.....	"	51.5	.....	46922	"	
.....	"	52	.....	46923	"	
.....	" .. Pink ..	52	58.71	46924	"	
.....	"	52	.....	46925	"	

WM. A. WEEKS, INSPECTOR.

.....	Traces.....	49	.....	46369	Genuine.	
.....	"	49.5	.....	46370	"	
.....	"	51	.....	46371	"	
.....	"	52	.....	46372	"	
.....	"	51	.....	46373	"	
.....	1.33	50.5	.....	46374	Excess water.	
.....	† 2.97	51.5	61.60	46375	Genuine.	
.....	Traces. Deep pink	51.5	.....	.....	.....

J. C. FERGUSON, INSPECTOR.

.....	Traces.	Crimson....	51	57.97	50545	Genuine.
" Maple Leaf " Brand....	"	51.5	50546	"
.....	"	51.5	50547	"

* Somewhat mouldy.

† Duplicate sample.

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BULLETIN No. 272—

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW

1913.							
Mar. 13	Lard	50548	Slipp & Flewelling St. John, N.B.	1½ lbs.	30	Vendors	
" 13	"	50549	S. E. Rice, St. John, N.B.	1½ "	30	F. W. Fearman Co., Hamilton.	
April 10	"	50550	P. H. McKenna, St. Stephen, N.B.	1½ "	25		G. E. Barbour Co., Ltd., St. John, N.B.
" 15	"	50551	J. Boyle & Son, Fred-erickton, N.B.	1½ "	30	Vendors	
" 23	"	50552	King & Asbell, Sussex, N.B.	1½ "	30	Matthews-Laing, Toronto, Ont.	
" 23	"	50553	D. A. McBeath, Moncton, N.B.	1 cake	40	Davis & Fraser, Charlottetown, P.E.I.	
" 23	"	50554	The 2 Barkers Ltd., Moncton, N.B.	1 "	26	Morris & Co., Chicago.	
Mar. 12	"	50600	John Hopkins, St. John, N.B.	1 "	30	Vendor	
April 16	"	55901	C. B. Snow, Woodstock, N.B.	1 "	27	Gunn's Ltd., West Toronto.	

DISTRICT OF QUEBEC—

Feb. 24	Lard	37128	Benjamin Cepcault, 68 Rue Cremasie, Montcalmville.	1½ lbs.	30	O'Keef, Chatham, Ont.	J. B. Renaud & Cie, Quebec.
" 25	"	37129	F. Racine, 66 Rue Cremasie, Montcalmville.	1½ "	30	" " "	Emond & Cote, Quebec.
" 26	"	37130	Joseph Brulot, 11 Chemin Ste. Foie.	1½ "	30	Matthews-Laing Co.	Octave Jacques, Quebec.
" 27	"	37131	Jos. Bédard, 113, Rue Stadacona.	2me 1½ "	33	Swift Co., Winnipeg.	Gagnon & Garent, Quebec.
" 27	"	37132	François Cliche, 4me, 130 Rue Stadacona.	1½ "	30	F. M. Sinclair, Cedar Rapids, Iowa.	Octave Jacques, Quebec.
Mar. 3	"	37133	F. Grenier, 50 Rue Scot, Quebec.	1½ "	33	Boulet & Lavoie, Quebec.	Manufacturers.....
" 3	"	37134	F. Delisle, 60 Rue Scot, Quebec.	1½ "	36	O'Keefe & Drew, Chatham, Ont.	Emond & Cote, Quebec.
" 3	"	37135	Jos. F. Goslin, 50 Rue D'Orchester, Quebec.	1½ "	30	F. M. Sinclair Co., London.	Manufacturers.....
" 4	"	37136	Charles Martel, 49 Rue Artillerie, Quebec.	1½ "	30	E. M. Sinclair Ltd., Toronto.	Alfred Dombroski, Quebec.
" 4	"	37137	A. Roy, 112½ Rue Scot, Quebec.	1½ "	30	Harris Abattoir, Cedar Rapids.	J. B. Renaud & Cie, London.
" 5	"	37188	J. A. Martel, 155 Rue St. Patrick, Quebec.	1½ "	30	F. M. Sinclair, Cedar Rapids.	Octave Jacques, Quebec.
" 5	"	37189	Ernest Tessier, 121 Rue Scot, Quebec.	1½ "	30	" " "	D. D. Drolet, Quebec.
" 5	"	37190	W. Gagnon, 112 Rue Artillerie, Quebec.	2 "	40	" " "	N. Rioux & Cie, Quebec.

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter. Read- ing at 40°C.	Iodine Number (Hanus).		

BRUNSWICK—*Concluded.*

	p. c.					
.....	Traces..		51	50548	Genuine.	
.....	0.39		53	50549	"	
Swift's "Silver Leaf," Lard.	Traces..		51	50550	"	
.....	"		50	50551	"	
.....	" ..	Crimson ..	51	59.06	50552	"
.....	"		50.5	50553	"	
"Supreme Brand.".....	"		52	50554	"	
.....	"		51.5	50600	"	
.....	" ..	Deep pink.	52	61.20	55201	"

F. X. W. E. BELAND, INSPECTOR.

.....	Traces..		32	37128	Genuine
.....	"		51.5	37129	"
.....	"		52	37130	"
.....	"		53	37131	"
.....	"		51	37132	"
.....	"		51.5	37133	"
.....	"		51.5	37134	"
.....	"		51	37135	"
.....	"		51	37136	"
.....	"		51.5	37137	"
.....	"		51.5	37188	"
.....	"		51	37189	"
.....	"		52.5	37190	"

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BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF

1913.

Mar.	5	Lard . . .	37191 J. Noel Rondeau, 6 Rue Lachevrotière, Québec.	1½ lb.	30	O'Keefe & Andrews, Co., Granton, Ont.	J. B. Reneaud & Cie., Québec.
"	5	"	37192 Alphonse Côté, 381 St. Jean, Québec.	1½ "	30	Matthews, Toronto.	Emond & Côté, Québec.

DISTRICT OF THREE RIVERS—

Mar.	17	Lard . . .	57214 Louis Ence, St. Félix de Valois.	3 lbs.	45	Laing, Montreal.	
"	17	"	57217 G. H. Read, St. Félix de Valois.	3 "	45	National Packing Co., Québec.	
"	17	"	57222 Thomas Guibord, St. Félix de Valois.	3 "	60	Davies Co., Montreal.	
"	17	"	57223 Jos. Mousseau, St. Félix de Valois.	3 "	54	Maple Leaf, West Toronto.	
"	18	"	57227 Ernest Asselin, St. Félix de Valois.	3 "	51	W. Davies, Montreal.	
"	19	"	57231 Edras Asselin, St. Félix de Valois.	3 "	60	W. Davies Co., Montreal.	
"	19	"	57234 Louis Bellerose, St. Félix de Valois.	3 "	54	" " "	
"	22	"	57238 C. Barrette, Joliette.	3 "	54	Laing, Montreal.	
"	22	"	57243 Magnan Frères, Joliette.	3 "	54	" " "	
"	24	"	57248 Wilfrid Brissette, St. Félix de Valois.	3 "	54	W. Davies Co., Montreal.	

DISTRICT OF EASTERN TOWNSHIPS—

Mar.	10	Lard . . .	1501 Cimeon Gouin, Victoriaville.	1 lb.	16		L. Chaput Fils et Cie., Montreal.
"	12	"	1502 J. E. Ouellette, Beauceville.	5 "	90	Fowler's Canadian Co., Ltd., Hamilton.	
"	12	"	1503 P. F. Renaud, Beauceville.	3 "	58	The Hovey Bros., Packing Co., Sherbrooke.	
"	17	"	1504 W. S. Samson & Son, Windsor Mills.	1 "	17	Matthews Laing Ltd., Montreal.	
"	18	"	1505 E. J. Planche et Cie., Cookshire.	1 pail	60	The Hovey Bros., Packing Co., Sherbrooke.	
"	19	"	1506 A. Lachance, Sherbrooke.	3 lbs.	55	Vendor.	
April	16	"	1507 Geo. E. Blais, Danville.	5 "	90	Matthews Laing Ltd., Montreal.	
"	18	"	1508 J. E. Alby, Drummondville.	1 "	13	The N. K. Fairbanks Co., Montreal.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter. Read- ing at 40°C.	Iodine Number (Hanus).		

QUEBEC--Continued.

	p. c.					
	Traces..		52		37191	Genuine.
Pure lard.....	"		52		37192	"

DR. V. P. LAVALLÉE, INSPECTOR.

	0.25 Pink..	50	63.85	57214	Genuine.
	Traces..	52		57217	"
	"	51		57222	"
	0.50	51		57223	"
	Traces..	51.5		57227	"
	"	52		57231	"
	"	52		57234	"
	0.63 Pink..	52	61.77	57238	"
	Traces..	52	62.27	57243	"
	"	52		57248	"

J. C. ROULEAU, INSPECTOR.

	Traces..	51		1501	Genuine.
Labelled pure lard	"	50		1502	"
	"	50		1503	"
	" .. Faint pink.	51	56.17	1504	"
	"	52		1505	"
	"	51.5		1506	"
	" .. Faint pink	52.5	55.57	1507	"
Labelled compound	" .. Crimson.	61	85.14	1508	Labelled compound

5 GEORGE V., A. 1915

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN

1913.							
April 21	Lard . . .	1509	R. J. Buckle, Sutton	3 lbs.	60	Alex. Ames & Sons, Sherbrooke,	
" 25	" . . .	1510	L. Gurdreau, St. Hyacinthe.	1 "	18	M. Lussier, St. Hyacinthe,	

DISTRICT OF MONTREAL—

Feb. 24	Lard . . .	51221	Jos. Lacombe, 677 Ont. St. Maisonneuve.	1½ lbs.	23	Swifts Packing and Prov. Co.	
" 24	" . . .	51222	J. Guay, 404 Orleans Ave., Maisonneuve.	1½ "	30	Swifts Canadian Co., Montreal.	
" 24	" . . .	51223	V. Levac, 700 Adams St., Maisonneuve.	1½ "	25	Swifts Packing and Prov. Co.	
" 25	" . . .	51224	P. J. Guay, 101 Fourth Ave., Vianville.	1½ "	27	Vendor.	
" 25	" . . .	51225	John Heaney, Lafontaine St., Maisonneuve.	1½ "	27	Matthews-Laing, Ltd., Montreal.	
" 25	" . . .	51226	J. O. Maranda, 215 Ont. St. Maisonneuve	1½ "	27	Swifts Packing and Prov. Co.	
" 25	" . . .	51227	M. A. Payette, 217 Ont. St., Maisonneuve.	1½ "	27	Whyte Packing Co., Ltd., Montreal.	
" 25	" . . .	51228	D. Rochan, 525 Ont. St., Maisonneuve.	1½ "	27	Swifts Packing and Prov. Co.	
" 25	" . . .	51229	H. Vallee, 2246 Ont. St. E., Montreal.	1½ "	27	Gunns Ltd., Montreal.	
" 25	" . . .	51230	A. Asselin, 2026 Ont. St. E., Montreal.	1½ "	27	Swifts Packing and Prov. Co.	
Mar. 3	" . . .	51290	Phaneuf Carriere, 76 Duquette St., Montreal	1 pail	2.75	" " "	

DISTRICT OF VALLEYFIELD—

Mar. 13	Lard . . .	51301	W. Plante, Valleyfield, Que.	1½ lbs.	27	Swifts Canadian Co., Ltd.	
" 13	" . . .	51302	W. Beaudry, Valleyfield, Que.	1½ "	30	" " "	
" 13	" . . .	51303	The Industrial Co-Op Society Ltd., Valleyfield, Que.	1½ "	30	Wm. Davies Co., Ltd., Montreal.	
" 13	" . . .	51304	J. A. Major, Valleyfield, Que.	1½ "	30	Fowler's Canadian Co., Ltd.	
" 19	" . . .	51305	E. Z. Labrosse, Vankleek Hill, Ont.	2 "	40	Matthews-Laing Ltd.	
" 19	" . . .	51306	John Wilson, Vankleek Hill, Ont.	1½ "	30	" " "	
" 20	" . . .	51307	F. X. Bertrand, Hawkesbury, Ont	1½ "	30	" " "	

SESSIONAL PAPER No. 14

LARD

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Buetyro Refracto- meter. Read- ing at 40°c.	Iodine Number (Hanus).		

TOWNSHIPS—*Concluded.*

Labelled Pure Lard.....	Traces..	51.5	.....	1509	Genuine.
.....	"	51	.....	1510	"

J. J. COSTIGAN, INSPECTOR.

Labelled Swift's Pure Lard.	0.47 Deep red...	54.1	81.55	51221	Adulterated with foreign fat.
"Silver Leaf" Brand...	Traces..	50.5	.....	51222	Genuine.
Labelled Swift's Pure Lard.	0.05 Deep red...	53	80.78	51223	Adulterated with foreign fat.
.....	Traces..	50	.....	51224	Genuine.
.....	" Deep pink..	51	59.10	51225	"
Labelled Swift's Pure Lard.	0.12 Deep red...	53	82.69	51226	Adulterated with foreign fat.
.....	Traces..	51.5	.....	51227	Genuine.
Labelled Swift's Pure Lard.	0.09 Deep red...	52.7	80.67	51228	Adulterated with foreign fat.
.....	Traces..	51	.....	51229	Genuine.
Labelled Swift's Pure Lard.	0.03 Deep red...	53	82.35	51230	Adulterated with foreign fat.
Sold for Pure Lard.....	0.09 "	53	80.41	51290	" "

J. J. COSTIGAN, ACTING INSPECTOR.

.....	Traces..	52	.....	51301	Genuine.
.....	"	52	.....	51302	"
.....	"	51.5	.....	51303	"
.....	"	52	.....	51304	"
.....	" Deep pink..	52	60.85	51305	"
.....	" Pink	51.5	56.05	51306	"
.....	" Deep pink..	52	59.18	51307	"

5 GEORGE V., A. 1915

BULLETIN No. 272

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher

DISTRICT OF

1913.

Mar. 24	Lard ..	51308	D. J. McDonald, Alex- andria, Ont.	2 lbs.	40	Matthews Laing ..	Ltd.
" 24	" ..	51309	John Boyle, Alexandria, Ont.	1½ "	30	" ..	"
" 24	" ..	51310	" ..	2 "	40	Swift's Canadian Co. ..	Ltd.

DISTRICT OF OTTAWA—

Feb. 21	Lard ..	51701	D. J. Gillies, Cornwall.	1½ lbs.	27	Armour Co, Ogdens- burg, U.S.	Manufacturers ..
" 21	" ..	51702	Fawthrop Bros., Corn- wall.	1½ "	26	Gunn's Ltd., Tor- onto.	" ..
" 22	" ..	51704	The City Grocery, Carle- ton Place.	1½ "	30	Matthews Laing Ltd., Ottawa.	" ..
" 22	" ..	51705	" ..	1 "	18	Gunn's Ltd., Tor- onto.	" ..
" 22	" ..	51706	R. D. Carmichael, Carle- ton Place.	2 "	36	Swift's Canadian Co., Ltd.	" ..
" 24	" ..	51707	A. E. Thomas, Arn- prior.	21 oz.	23	Fowler's Canadian Co., Hamilton, Ont.	" ..
" 24	" ..	51708	A. Murphy, Arnprior.	1 lb.	18	Matthews Laing Ltd., Montreal.	" ..
" 24	" ..	51709	T. McCormick, Arn- prior.	1½ "	26	Swift's Packing and Prov. Co., Chicago, St. Louis and New York.	" ..
" 27	" ..	51710	J. Mundy, St. Patrick 1½ St., Ottawa.	"	26	Fowler's Canadian Co., Ltd., Hamil- ton.	" ..
Mar. 1	" ..	51765	Jos. Martel, Hull, Que.	1½ "	26	Matthews Laing Ltd., Ottawa.	" ..

DISTRICT OF KINGSTON—

Mar. 3	Lard ..	46584	H. C. Hampton, Belle- ville.	1½ lbs.	27	Gunn's Ltd., Tor- onto.	" ..
" 3	" ..	46585	S. R. Artis, Belleville	1½ "	27	" ..	J. Sloan, Belleville
" 3	" ..	46586	W. H. Lanning, Belle- ville.	1½ "	27	Gunn's Ltd., Tor- onto.	" ..
" 3	" ..	46587	W. Davies, Belleville	2 "	10	W. Davies Co., Tor- onto.	" ..
" 3	" ..	46588	E. A. Kellaway, Belle- ville.	1½ "	27	" ..	" ..
Feb. 27	" ..	50793	W. J. Lee, Kingston.	1½ "	27	Morris Co., Chicago.	" ..
" 27	" ..	50794	W. J. Arnill, Kingston.	1½ "	27	Geo. Matthews,	Peterborough.

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter. Read- ing at 40°c.	Iodine Number (Hanus).		

VALLEYFIELD—*Concluded.*

	P. C.				
.....	Traces.. Deep pink..	51.5	58.82	51308	Genuine.
Rose Brand.....	"	50.5	...	51309	"
Silver Leaf Brand.....	0.16	51	.....	51310	"

J. A. RICKEY, INSPECTOR.

.....	Traces..	51.5	.....	51701	Genuine.
.....	"	51	.....	51702	"
Matthews Pure Lard....	" .. Pink.	50.5	53.42	51704	"
Gunn's Pure Lard	"	52	.....	51705	"
" Maple Leaf " Brand.	"	53	.....	51706	"
Silver Leaf Brand, Guar- anteed absolutely pure.	"	52	.....	51707	"
" Imperial " Pure Lard..	" .. Faint pink..	52	60.46	51708	"
Labelled pure lard ...	0.09 Deep red....	53	81.04	51709	Adulterated with tallow.
" Imperial " Brand....	Traces..	52	.....	51710	Genuine.
Pure Lard.....	Traces.. Deep pink..	52.5	59.09	51705	"

JAS. HOGAN, INSPECTOR.

.....	Traces..	51	.....	46584	Genuine.
.....	"	51.5	.....	46585	"
.....	"	50.5	.....	46586	"
.....	"	51	.....	46587	"
.....	"	51	.....	46588	"
.....	"	52	.....	50793	"
.....	"	51.5	.....	50794	"

5 GEORGE V., A. 1915

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF

1913.							
Feb. 27	Lard	50795	Anderson Bros., Kingston.	1½ lbs.	30	Vendors	
" 27	"	50796	W. Davies, Kingston.	2 "	40	Vendor	
" 27	"	50797	A. Maclean, Kingston.	1½ "	25	"	

DISTRICT OF TORONTO—

Feb. 27	Lard	57001	Mrs. J. Crapper, 234 George St., Toronto.	1½ "	30	.....	C. H. Rudd, Toronto.
" 28	"	57002	B. Sigstone, 130 River St., Toronto.	1½ "	26	.....	J. A. McLean Produce Co., Ltd., Toronto.
" 28	"	57003	J. P. Turner & Son, 185 Sumach St., Toronto.	1½ "	27	The Swift's Canadian Co. Ltd., Toronto.	
Mar. 4	"	57004	J. W. Laister, 174 Wilton Ave., Toronto.	1½ "	30	Vendor	
" 4	"	57005	E. Gent, 461 Parliament St., Toronto.	1½ "	28	.....	Wm. Regan, Ltd., Toronto.
" 4	"	57006	W. M. Trewin, 768 Bathurst St., Toronto.	1½ "	30	.....	Maciver Bros., Toronto.
" 4	"	57007	E. T. Brittain, Lippincott and Lennox Sts., Toronto	1½ "	30	Gunn's, Ltd., Toronto.	
" 5	"	57008	R. Ponney, 195 Danforth Ave., Toronto.	1½ "	27	.....	Unknown
" 5	"	57009	W. J. O'Neill, 637 Dundas St., Toronto.	1½ "	25	Gunn's, Ltd., Toronto.	
" 6	"	57010	Guile Bros., 312 Queen St. East, Toronto.	1½ "	27	Vendors	
" 6	"	57056	R. Starks, 1954 Queen St. East, Toronto.	1½ "	29	F. W. Fearman & Co., Hamilton.	
" 7	"	57057	Yonge & Sons, 320 Royce Ave., Toronto.	1½ "	27	.....	F. W. Humphrey, Toronto.
" 12	"	57058	E. F. Churchill, 1479 Yonge St., Toronto.	1½ "	28	F. W. Fearman & Co., Ltd., Toronto.	

DISTRICT OF HAMILTON—

April 9	Lard	57101	Misner Bros., 407 Colborne St. East, Brantford.	1½ "	30	Matthew-Laing Co., Brantford.	
" 9	"	57102	R. M. Copeland, 52 Port St., Brantford.	1½ "	26	F. W. Fearman Co., Ltd., Hamilton.	
" 10	"	57103	MacQueen & Co., Paris.	1½ "	27	.....	Jas. Lumbers & Co., Toronto.
" 10	"	57104	Geo. Pirie, Lynden.	1½ "	27	Fowler's Canadian Co., Hamilton.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter. Read- ing at 40°C.	Iodine Number (Hanus).		

KINGSTON—*Concluded.*

	p. c.					
.....	Traces..	Pink tinge..	51	56.23	50795	Genuine.
.....	"	.....	51.5	.....	50796	"
.....	"	.....	51	.....	50797	"

H. J. DAGER, INSPECTOR.

Swift's "Silver Leaf" Lard.	Traces..	.....	51	.....	57001	Genuine.
.....	"	.....	50.5	.....	57002	"
"Silver Leaf" Lard ...	"	.....	51	.....	57003	"
.....	"	.....	52.4	.....	57004	"
.....	1.58	.....	52	.....	57005	Excess water, slight.
.....	Traces..	.....	50	.....	57006	Genuine.
.....	"	.....	50	.....	57007	"
Swift's "Silver Leaf" Lard.	"	.....	49.5	.....	57008	"
"Maple Leaf" Brand...	"	.....	51	.....	57009	"
.....	"	Pink.....	51	57.56	57010	"
.....	"	.....	50	.....	57056	"
.....	"	.....	51.5	.....	57057	"
.....	"	Pink..	50.5	60.34	57058	"

H. J. DAGER, ACTING INSPECTOR.

.....	Traces..	.....	50	.....	57101	Genuine.
Labelled "Star Brand" Pure Lard.	"	.....	52	.....	57102	"
.....	"	.....	52	.....	57103	"
.....	"	.....	51.5	.....	57104	"

5 GEORGE V., A. 1915

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF

1913.							
April 14	Lard . . .	57105	L. Werner, Dunnville..	1½ lbs.	30	.....	By a Farmer near Dunnville.
" 14	" . . .	57106	A. G. McDowell, Dunnville.	1½ "	30	Moyer Bros., St. Catharines.	.....
" 17	" . . .	57107	E. Gander, St. Catharines.	1½ "	25	.....	W. H. Merriman, St. Catharines.
" 23	" . . .	57108	Jas. McQuarrie, 11 King William St., Hamilton.	1½ "	27	The F. W. Fearman Co., Hamilton.	.....
" 23	" . . .	57109	E. K. Horning, 140 John St. North, Hamilton.	1½ "	27	" " ..	.....
" 23	" . . .	57110	Trebilcock & Berry, 301 King St. East, Hamilton.	1½ "	30	Moyer Bros., Ltd., St. Catharines.	.....

DISTRICT OF WINDSOR—

Feb. 24	Lard	47932	F. J. Webb, London, Ont.	1½ lbs.	27	Swift's Canadian Co., Toronto.	.....
24	"	47933	Geo. Jackson, London, Ont.	1½ "	27	Vendor . . . . .	.....
24	"	47934	T. Hamlyn, London, Ont.	1½ "	30	" . . . . .	.....
24	"	47935	H. A. Schafer, London, Ont.	1½ "	27	Fowler's Canadian Co., Hamilton.	.....
24	"	47936	F. T. Adams, London, Ont.	1½ "	28	Vendor . . . . .	.....
25	"	47937	H. R. Griffith, London, Ont.	1½ "	30	" . . . . .	.....
25	"	47938	Trothan Bros., London East.	1 lb.	15	Vendors . . . . .	.....
25	"	47939	Geo. Burn, London East.	3 lbs.	54	Ingersoll Packing Co., Ingersoll.	.....
25	"	47940	Mitchell & Hopkins.	3 "	54	O'Keefe & Drew, Chatham, Ont.	.....
25	"	47941	G. B. Drake.....	3 "	60	Swift's Canadian Co., Toronto.	.....

DISTRICT OF MANITOBA—

4	Lard	48855	Moffett & Douglas, Selkirk Ave, Winnipeg.	3 lbs.	55	Swift's Canadian Co., Winnipeg.	Manufacturers
" 4	"	48856	S. Elliott & Co., Main St. N., Winnipeg.	3 "	60	Gordon Ironside Fares Co., Winnipeg.	"
" 4	"	48857	D. Campbell, Main St. N., Winnipeg.	3 "	60	" " ..	"
" 5	"	48858	J. Paterson, Main St. N., Winnipeg.	3 "	55	Swift's Canadian Co., Winnipeg.	"

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter. Read- ing at 40°C.	Iodine Number (Hanus).		

HAMILTON—Concluded.

	p. c.					
.....	Traces..		51	.....	57105	Genuine.
.....	" ..	Faint pink..	52	61.89	57106	"
Fowler's Canadian Co., "L. & S." Brand, Pure Lard.	" ..		52	.....	57107	"
.....	" ..		52	.....	57108	"
.....	" ..		52	.....	57109	"
.....	" ..		52	.....	57110	"

JOHN TALBOT, INSPECTOR.

Labelled Swift's Silver Leaf Lard.	Traces..	Deep pink ..	52	59.01	47932	Genuine.
.....	" ..		52	.....	47933	"
.....	" ..		51.5	.....	47934	"
Labelled Fowler's Pure Lard.	" ..		52	.....	47935	"
.....	" ..		52	.....	47936	"
.....	" ..		52	.....	47937	"
.....	" ..		52	.....	47938	"
Labelled Ingersoll Pure Lard, "Beaver Brand."	" ..		52	.....	47939	"
Labelled "Diamond" Brand O.K. Pure Lard.	" ..		52.5	.....	47940	"
Labelled "Swift's Silver Leaf" Brand, Pure Lard.	" ..		52.5	.....	47941	"

A. C. LARIVIERE, INSPECTOR.

"Silver Leaf" Brand..	Traces..	.....	51	61.43	48855	Genuine.
"Sterling" Pure Lard..	" ..		50	.....	48856	"
.....	" ..		51	.....	48857	"
"Silver Leaf" Brand ..	" ..		52	.....	48858	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF

1913.							
Mar.	5	Lard.	48859 W. H. Stone & Co., Main St. N., Winni- peg.	3 lbs.	55	Swift's Canadian Co., Winnipeg.	Manufacturers.....
"	5	"	48860 J. Smith & Son, Main St. N., Winnipeg.	3 "	55	" " "	"
"	6	"	48861 A. J. Bond & Co., St. James, Winnipeg.	3 "	55	" " "	"
"	6	"	48862 J. Watson & Co., St. James, Winnipeg.	3 "	55	The Western Pack- ing Co., Winnipeg.	"
"	6	"	48863 Dungan & Hunter, St. James, Winnipeg.	1½ "	30	" " "	"
"	6	"	48864 Gibson Gege Co., 534 Notre Dame, Winni- peg.	3 "	55	Gallagher, Holman, Lafrance, Winni- peg.	"

DISTRICT OF ROCKY MOUNTAINS—

Mar.	4	Lard	49824 Star Grocery, Nelson, B.C.	1 pail	65	Swift's Canadian Co., Edmonton.	.....
"	"	"	49835 " " "	1 "	65	Armour & Co., Chicago.	.....
"	4	"	49840 Christie & Benson, Nel- son, B.C.	1 "	60	P. Burns & Co., Cal- gary.	.....
"	4	"	49841 Bell Trading Co., Nel- son, B.C.	1 "	65	Armour & Co., Chicago.	.....
"	7	"	49846 Morrin Thompson & Co., Phoenix, B.C.	1 "	60	Swift's Canadian Co., Edmonton.	.....
"	7	"	49847 P. Burns & Co., Phoenix, B.C.	1 "	60	P. Burns & Co., Cal- gary.	.....
"	13	"	49850 E. F. Rahal, Hosmer, B.C.	1 "	90	T. M. Sinclair Co., Cedar Rapids, Iowa.	.....
"	13	"	49851 " " "	1 "	65	Armour & Co., Chicago.	.....
"	13	"	49857 M. Lund, Hosmer, B.C.	1 "	65	" " "	.....
"	17	"	49860 C. B. Hume & Co., Revelstoke, B.C.	1 "	65	Swift's Canadian Co., Edmonton.	.....
"	17	"	49867 L. C. Masson, Revel- stoke, B.C.	1 "	65	P. Burns & Co., Cal- gary.	.....
Apr.	7	"	49871 Polson Mercantile Co., Enderby, B.C.	1 "	75	Fry Bruhn Co., Seattle.	.....
"	9	"	49873 A. E. Morgan & Co., Armstrong, B.C.	1 "	65	Swift's Canadian Co., Edmonton.	.....
"	9	"	49874 J. Fraser, Armstrong, B.C.	1 "	65	Fry Bruhn Co., Seattle.	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter, Read- ing at 40°C.	Iodine Number (Hanus).		

MANITOBA—*Concluded.*

	p. c.				
Silver Leaf Brand.	Traces ..	52	.....	48859	Genuine.
" " " " " " " " " "	" " " " " " " " " "	52	.....	48860	"
" " " " " " " " " "	" " " " " " " " " "	52	60 23	48861	"
" " " " " " " " " "	" " " " " " " " " "	52.5	55 03	48862	"
" " " " " " " " " "	" " " " " " " " " "	53.5	44 30	48863	"
Pure Lard " " " " " " " " " "	" " " " " " " " " "	53	45.42	48864	"

THOS. PARKER, INSPECTOR.

"Silver Leaf " " " " " " " " " "	Traces ..	52	.....	49834	Genuine.
"Shield " " " " " " " " " "	" " " " " " " " " "	52	.....	49835	"
"Shamrock " " " " " " " " " "	" " " " " " " " " "	52	.....	49840	"
"Simon Pure " " " " " " " " " "	" " " " " " " " " "	51	.....	49841	"
"Silver Leaf " " " " " " " " " "	" " " " " " " " " "	51	.....	49846	"
"Shamrock " " " " " " " " " "	" " " " " " " " " "	52	.....	49847	"
"White Frost " " " " " " " " " "	" " " " " " " " " "	51	.....	49850	"
"Shield " " " " " " " " " "	" " " " " " " " " "	51	.....	49851	"
"Simon Pure " " " " " " " " " "	" " " " " " " " " "	50.5	.....	49857	"
"Silver Leaf " " " " " " " " " "	1.25	51.5	.....	49860	Excess water, slight.
"Shamrock " " " " " " " " " "	Traces ..	51.5	.....	49867	Genuine.
" " " " " " " " " "	" " " " " " " " " "	52	.....	49871	"
" " " " " " " " " "	" " " " " " " " " "	52	.....	49873	"
" " " " " " " " " "	" " " " " " " " " "	52	.....	49874	"

5 GEORGE V., A. 1915

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER

1913.							
Apr. 24	Lard	53476	Turner's Grocery, Pender St., Vancouver.	1½ lb.	30	Frye & Co., Seattle, U.S.A.	
" 24	"	53477	Dickies Grocery, Hornby St., Vancouver.	1½ "	30	"	
" 24	"	53478	T. Russell, Pender St., Vancouver.	1½ "	30	Morrell & Co., Seattle, Wash.	
" 24	"	53479	Frank Wright, Seymour St., Vancouver.	1½ "	30	Swift & Co., Winnipeg.	
" 24	"	53480	P. Burns & Co., Granville Market, Vancouver.	1½ "	30	Vendors	
" 25	"	53481	Slater Bros., 860 Granville St., Vancouver.	1½ "	30	P. Burns & Co., Vancouver.	
" 25	"	53482	B. C. Market Co., 920 Granville St., Vancouver.	1½ "	20	Swift's Canadian Co., Winnipeg.	
" 25	"	53483	Murphy & Co., Helmen and Granville Sts., Vancouver.	1½ "	30	Swift's Canadian Co., Vancouver.	
" 25	"	53484	Wm. Crossan, 735 Davie St., Vancouver.	1½ "	30	Swift's Canadian Co., Winnipeg.	
" 25	"	53485	W. H. Walsh Co., Seymour St., Vancouver.	1½ "	30	Frye & Co., Seattle, U.S.A.	

DISTRICT OF VICTORIA

Mar. 14	Lard	53544	Acton Bros., 1317 Douglas St., Victoria.	2 lbs.	45	John Morrell & Co., Ottumwa, U.S.	
" 14	"	53547	Fenerty Bros., Oak Bay Junction, Victoria.	2 "	50	Swift's Canadian Co., Winnipeg.	
" 14	"	53549	Wm. Marshall, Stanley Ave. and Fort St., Victoria.	3 "	60	"	
" 18	"	53551	Copas & Young, 631 Fort St., Victoria.	3 "	60	Frye Bruhn & Co., Seattle, Wash.	
" 18	"	53556	Dixie H. Ross & Co., 1317 Govt. St., Victoria.	3 "	65	Vanc. Prince Rupert Meat Co., Vancouver.	
" 26	"	53567	P. Burns & Co., Ltd., 902 Govt. St., Victoria.	3 "	60		Weederkind & Co., London, Eng.
" 27	"	53568	Vanc. Prince Rupert Meat Co., 1423 Douglas St., Victoria.	1 "	55	Vendors	
" 27	"	53569	L. Goodacre & Sons, Govt. St., Victoria.	3 "	60	Swift's Canadian Co., Winnipeg.	
" 27	"	53570	The Pork Shop, 1116 Blanchard St., Victoria.	3 "	50	"	
" 28	"	53571	James Adams, Cook and Mears Sts., Victoria.	3 "	60	Frye Bruhn Co., Seattle, Wash.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Batyro Refracto- meter. Read- ing at 40°C.	Iodine Number (Hanus).		

J. F. POWER, INSPECTOR.

	p. c.				
.....	Traces.....	50.5		53476	Genuine.
.....	"	50		53477	"
.....	"	50.5		53478	"
.....	"	50		53479	"
.....	" .. Pink..	51	62.00	53480	"
.....	" .. Light pink.	51.5	63.50	53481	"
Jewell Brand....	" .. " ..	51	60.01	53482	"
.....	"	51		53483	"
.....	" .. Crimson...	55.5	83.25	53484	Adulterated with foreign fat.
.....	" .. " ..	52	67.26	53485	Doubtful.

D. O'SULLIVAN, INSPECTOR.

Morrell's Pure Lard....	Traces.....	52		53504	Genuine.
'Silver Leaf' Brand..	"	52		53547	"
" .. " ..	"	52		53549	"
" Wild Rose" Brand....	"	51		53551	"
" White Lily" Pure Leaf Lard.	"	52		53556	"
Burn's Shamrock Leaf Brand.	"	51.5		53567	"
White Lily Pure Leaf Brand.	"	52		53568	"
Silver Leaf Brand....	"	52		53569	"
" .. " ..	"	51		53570	"
Wild Rose Brand. . .	"	51.5		53571	"

APPENDIX P.

BULLETIN No. 273.—GELATIN.

OTTAWA, February 6, 1914.

Wm. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report on 161 samples purchased as gelatin, by our inspectors, during June and July of last year.

This is the first systematic examination of gelatin which we have made.

Gelatin as an article of food differs from ordinary glue only in the care employed in its manufacture. Both are the product of treating the so-called collagens of bones, tendons, cartilage, &c., with boiling water.

It goes without saying that in the manufacture of gelatin only carefully selected materials should be employed; no portion of the animal which is filthy or diseased or otherwise disgusting should be used.

The present investigation deals only with gelatin sold as such. It is to be remembered that gelatin enters largely into the various jelly powders, crystals and blocks sold everywhere for making domestic jelly; also into tinned and potted jellied meats, and as a stiffener in ice cream.

By the use of known methods of refining, bleaching, &c., it is possible to make a very attractive article of gelatin from the most objectionable raw material. Nor does it follow that analytical processes applied to the finished article must certainly discover the nature of the original substances used. For this reason the inspection of all gelatin factories should be insisted upon; and the Meat Inspection Act administered by the Department of Agriculture covers this point. So far as Canada is concerned.

Gelatin has a certain food value, although by no means equal to that of the true proteins. Hutchinson says (*Food and Dietetics*, p. 76), "A quart of jelly (containing about 2 per cent of gelatin) would only be able to spare the proteid of 2½ ounces of meat."

Glue is legitimately made from every kind of waste animal matter containing collagens; but although the processes involved in manufacture prevent the likelihood of any living germs remaining in the product, it violates every sense of refinement to imagine such material being used as the source of edible gelatin; for this reason it is desirable to distinguish between glue and gelatin. That commercial gelatin may be an objectionable food substance has been proven many times. I may cite the following from the experience of the federal laboratories of the United States:—

Notice of Judgment—

No. 1127.—Filthy, putrid material—642 packages destroyed.

No. 1128.—Filthy, putrid material—270 packages destroyed.

No. 1365.—Filthy, putrid material—5 barrels destroyed.

No. 2062.—Glue, sold as gelatin—fine, \$40.

No. 2295.—Contained 14 to 15 parts arsenic and 230 parts zinc per million—bond for \$500.

No. 2629.—Contained arsenic, 13 parts per million—bond given for \$500.

The *British Pharmacopoeia* describes gelatin as follows (Edit. 1898):—

GELATIN.

The air-dried product of the action of boiling water on such animal tissues as skin, tendons, ligaments and bones.

Characters and Tests.—In translucent and almost colourless sheets or shreds. A solution in 50 parts of hot water is inodorous, and solidifies to a jelly on cooling. Gelatin is insoluble in alcohol (90 per cent) and ether. It dissolves in acetic acid. Its aqueous solution yields a precipitate with solution of tannic acid, but not with solution of other acids, nor with solution of alum, solution of lead acetate, or test-solution of ferric chloride.

E. J. Parry (Foods and Drugs, Vol. 1, page 414), says:—

From the food point of view, the following are the essentials of a good gelatin:

1. When soaked in cold water for four hours and then made into a jelly by heating with water, it should yield no offensive odour. If it has an objectionable smell, it should at once be rejected as unfit for food.

2. If in aqueous solution, it yields an appreciable precipitate, with the reagents named by the B.P. it is to be regarded as of inferior quality as containing excess of chondrin, resulting from the decomposition of hyaline cartilage.

3. Its ash should contain no heavy metals, such as copper, which is sometimes present to the extent of 1 grain per lb., and not more than 10 parts of iron per 100,000.

4. It should not contain more than 5 parts of SO_2 per 100,000. This is determined by distilling a 5 per cent solution of the gelatin, oxidizing the distillate with bromine water and precipitating the SO_2 formed, by BaCl_2 . Excess of SO_2 due to the use of SO_2 as a bleaching agent may cause action to be set up with the metal of the tins in which the product is frequently packed, and consequent discolouration of the product, due to the formation of metallic sulphides.

No entirely satisfactory definition of gelatin as distinguished from glue has been published. I am given to understand that the matter is being studied at Washington. It is generally accepted that the ash of high grade gelatins should not exceed 2 per cent, while 4 per cent may occur in glue without detriment to its adhesive value which, of course, is the critical datum in glue. A limit should be placed upon permissible sulphur in sulphites or sulphurous acid; but the fixing of the limiting number necessitates further consideration. Sulphurous acid is used as a bleaching agent, and probably is more largely present where highly coloured material has been used in the manufacture.

The ash is above 2 per cent in 38 samples examined and herein reported. It does not reach 3 per cent in any sample.

The sulphurous acid (SO_2) varies from a trace to 1090 parts per million. It is certain that this last figure is excessive.

The matter of standardizing gelatin as distinguished from glue will be kept in view; and the analytical results now placed on record will, it is believed, greatly assist in this work.

I would respectfully suggest the publication of this report as Bulletin No. 273.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
July 7	Gelatin	54112	Morrison & Williams, Halifax, N.S.	3 pkgs	36	C. B. Knox Co., Montreal.	Pyke Bros., Halifax.
" 8	"	54113	Bauld Bros., Ltd., Halifax, N.S.	3 "	30	J. & G. Cox, Edinburgh, Scotland.	Mfrs.
" 9	"	54114	Wentzells, Ltd., Halifax, N.S.	3 "	30	"	"
" 16	"	54115	R. E. Harris & Sons, Wolfville, N.S.	3 "	25	McLaren's, Toronto.	"
" 17	"	54116	Murphy & Demont, Windsor, N.S.	3 "	30	Koeppf & Co., Germany.	Unknown
" 17	"	54117	John Lynch & Son, Windsor, N.S.	3 "	45	C. B. Knox Co., Montreal.	Jno Tobin & Co., Halifax, N.S.
" 23	"	54118	W. H. Stevens, Dartmouth, N.S.	6 ozs.	30	Unknown	N. D. & C. Co., Halifax.
" 24	"	54119	Crowe Bros., Truro, N.S.	6 "	30	"	Standard Imports Co., Montreal.
" 24	"	54120	Ryan Bros, Truro, N.S.	3 pkgs	45	C. B. Knox Co., Montreal.	Black & Co., Truro, N.E.
" 28	"	54121	Wm. Moore, Halifax, N.S.	3 "	30	J. & G. Cox, Edinburgh, Scotland.	Unknown

DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON—

Aug. 7	Gelatin	53702	A. A. McDonald, New Glasgow, N.S.	4 ozs.	30	Chas. B. Knox Co., Johnston, N.Y.	
" 7	"	53705	The 2 Barkers Co., New Glasgow, N.S.	4 "	30	"	
" 7	"	53711	D. C. McKay, New Glasgow, N.S.	4 "	30	"	

DISTRICT OF NEW BRUNSWICK—

June 20	Gelatin	50611	W. A. Simonds, St. John, N.B.	3 pkgs	45	C. B. Knox Co., Montreal.	
" 23	"	50612	M. E. Grass, St. John, N.B.	3 "	39	J. & G. Cox, Edinburgh, Scotland.	
July 8	"	50613	The Verxa Grocery Co., Fredericton, N.B.	3 "	25	Lister Pure Food Co., Ltd., Toronto.	
" 9	"	50614	E. A. Burden, Woodstock, N.B.	5 "	30	Pure Gold Mfg. Co., Ltd., Toronto.	
" 10	"	50615	D. R. Bedell, Andover, N.B.	3 "	36	J. & G. Cox, Edinburgh, Scotland.	
" 11	"	50616	H. N. Dickinson, Perth, N.B.	3 "	45	Chas. B. Knox Co., Montreal.	
" 22	"	50617	W. B. McKay Co., Ltd., Sussex, N.B.	3 "	30	Standard Imports, Ltd.	

SESSIONAL PAPER No. 14

GELATIN.

Results of Analysis.									
Inspector's Report. (Is not an expression of Opinion).	Ash.	Sulphites Parts per 100,000 (SO ₂).	Gelatining power of a 5 p. c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air 21 days.	Reaction with			Remarks.	No. of Sample.
					Litmus Paper.	Lead Subacetate Solution (5p. gr. 1:25).	5 p. c. Alum Solu- tion.		

R. J. WAUGH, INSPECTOR.

	p. c.								
.....	1.17	29	Pos- itive.	Nor- mal	Acid	Neg- ative	Neg- ative	Neg- ative	54112
.....	2.30	Trace	"	"	"	"	"	"	54113
.....	2.55	"	"	"	"	"	"	"	54114
.....	1.05	29	"	"	"	"	"	"	54115
.....	1.25	7	"	"	"	"	"	"	54116
.....	1.42	19	"	"	"	"	"	"	54117
Sold as sheet gelatin.	1.37	5	"	"	"	"	"	"	54118
"	1.77	13	"	"	"	"	"	"	54119
.....	1.22	21	"	"	"	"	"	"	54120
.....	1.80	16	"	"	"	"	"	"	54121

MOSES DELOREY, TEMPORARY INSPECTOR.

.....	1.12	29	"	"	"	"	"	"	55702
.....	1.25	16	"	"	"	"	"	"	53705
.....	1.25	27	"	"	"	"	"	"	53711

JNO. C. FERGUSON, INSPECTOR.

Knox Sparkling No. 1 Gelatin.	1.00	33	"	"	"	"	"	"	50611
.....	2.20	3	"	"	"	"	"	"	50612
Litsters.....	1.25	Trace	"	"	"	"	"	"	50613
.....	1.12	20	"	"	"	"	"	"	50614
Cox's Instant Pow- der.	2.50	16	"	"	"	"	"	"	50615
Knox's Sparkling No. 1.	1.42	27	"	"	"	"	"	"	50616
.....	1.45	None	"	"	Neu- tral	"	"	"	50617

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1913.							
July 23	Gelatin.	50618	Rod. McLean, Moncton, N. B.	3 pkgs	36	J. & G. Cox, Edinboro, Scot.	.....
" 23	"	50619	J. T. Ryan, Moncton, N. B.	3 "	45	Standard Imports, Ltd., Montreal.	.....
" 24	"	50620	George Stables, New-castle, N. B.	3 "	45	Chas. B. Knox Co., Montreal.	.....

DISTRICT OF QUEBEC—

June 18	Gelatin.	51069	P. Légaré, Charlebourg, Quebec.	3 pkgs	36	Gorgie Mills, Edinboro, Scot.	N. Turcot et Cie.
" 19	"	56110	A. Lachance, Limoilou...	3 "	30	Standard Imports, Ltd., Montreal.	Quebec Preserv-ing Co.
" 19	"	56111	G. Lapointe.....	3 "	30	Unknown	Gaynor & Garent
" 19	"	56112	"	3 "	30	"	Gaynor & Frère.
" 20	"	56113	W. Cantin, 135 rue du Pont, Quebec.	3 "	36	Standard Imports, Ltd., Montreal.	Joseph & Son...
" 20	"	56114	"	3 "	36	"	" ..
" 20	"	56115	H. St. Cyr, 95 rue du Pont, Quebec.	3 "	30	"	W. Brunet.....
" 20	"	56116	"	3 "	36	"	" ..
" 26	"	56117	Arthur Drolet, 714 rue St Valier, Quebec.	3 "	30	"	Turcot & Frère.
" 26	"	56118	"	3 "	36	Gorgie Mills, Edinboro, Scot.	" ..

DISTRICT OF EAST QUEBEC—

June 23	Gelatin.	53316	O. Carboneau, Berthier. .	3 pkgs	30	Unknown.....	.....
" 23	"	53318	G. E. O. Roy, Berthier. .	3 "	30	T. & G. Co, Gelatin Wks., Edinboro.	.....
" 23	"	53319	"	3 "	30	.....	Unknown
" 23	"	53320	Z. Roi, St. François, Co. Montmagny.	3 "	30	Packed for Stand-ard, Montreal.	.....
" 24	"	53322	L. G. Fournier, Mont-magny.	3 "	30	Unknown .....	.....
" 24	"	53327	A. N. Normand, Mont-magny.	3 "	30	Standard Imports, Montreal.	.....
" 24	"	53331	J. Fournier, St. Thomas, P. Q.	3 "	30	.....	Turcot & Frère, Quebec.

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.	
	Ash.	Sulphites Parts per 100,000 (SO ₂).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air 2 days.	Reaction with				
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1.26).			5 p.c. Alum Solu- tion.

Concluded.

	p. c.								
Cox's.....	2.25	3. Posi- tive..	Normal	Acid.	Neg- ative.	Neg- ative.	Neg- ative.		50618
The Lady Charlotte.	1.40	None.	"	Neu- tral.	"	"	"		50619
Knox's Sparkling...	1.12	22	"	Acid.	"	"	"		50620

F. X. W. E. BELAND, INSPECTOR.

.....	2.50	Trace.	"	"	Acid.	"	"	"	37069
.....	1.27	4	"	"	Neu- tral.	"	"	"	56110
.....	1.47	4	"	"	"	"	"	Coloured red with a vegetable dye.	56111
.....	1.50	4	"	"	"	"	"	"	56112
.....	1.30	None.	"	"	"	"	"	"	56113
.....	1.55	"	"	"	"	"	"	Coloured red with a vegetable dye.	56114
.....	1.10	"	"	"	"	"	"	"	56115
.....	1.60	8	"	"	"	"	"	Coloured red with a vegetable dye.	56116
.....	1.52	6	"	"	"	"	"	"	56117
.....	2.37	5	"	"	Acid	"	"	"	56118

ALP. PELLETIER, INSPECTOR.

.....	1.42	1	"	"	Neu- tral.	"	"	"	53316
Sparkling.....	1.85	Trace.	"	"	Acid.	"	"	"	53318
.....	1.37	None	"	"	Neu- tral.	"	"	"	53319
.....	1.37	"	"	"	"	"	"	"	53320
.....	1.25	6	"	"	"	"	"	"	53322
.....	1.40	Trace.	"	"	"	"	"	"	53327
.....	1.35	1	"	"	"	"	"	Coloured red with a vegetable dye.	53331

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report, (Is not an expression of opinion).	Results of analysis.					Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO ₂).	Gelatinizing power of a 5 p.c. solution.	Odour of a 5 p.c. solu- tion exposed to air 2 days.	Reaction with		
					Litmus Paper		

Concluded.

	p.c.								
.....	1.35	4 Pos- itive.	Normal.	Neu- tral.	Neg- ative.	Neg- ative.	Neg- ative.	Coloured red with a vegetable dye.	53344
.....	1.02	Trace.	"	"	"	"	"	"	53349
.....	1.05	None.	"	"	"	"	"	"	53354

DR. V. P. LAVALLEE, INSPECTOR.

Jelly.....	1.25	81	"	"	Acid.	"	"	"	58920
.....	1.22	5	"	"	"	"	"	Coloured red with an aniline dye.	58926
.....	1.90	5	"	"	"	"	"	"	58927
.....	1.92	43	"	"	"	"	"	"	58928
.....	1.20	54	"	"	"	"	"	"	58929
.....	1.87	87	"	"	"	"	"	"	58930
.....	2.05	87	"	"	"	"	"	"	58931
.....	1.25	16	"	"	"	"	"	"	58932
.....	1.07	66	"	"	"	"	"	Coloured red with a vegetable dye.	58933
.....	1.30	Trace.	"	"	"	"	"	"	58934
.....	2.12	60	"	"	"	"	"	"	58976

J. C. ROULEAU, INSPECTOR.

.....	1.27	32	"	"	Acid.	"	"	"	1612
.....	2.25	6	"	"	"	"	"	"	1613
.....	1.82	43	"	"	"	"	"	"	1614
.....	1.65	71	"	"	"	"	"	"	1615
.....	1.87	3	"	"	Neu- tral.	"	"	Coloured red with a vegetable dye.	1616
.....	1.50	None.	"	"	"	"	"	"	1617

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS							
1913.							
July 30	Gelatin.	1618	J. Dauphinais, St. Hilaire.	3 pkgs.	36	.....	L. Chaput et fils et Cie, Montreal
Aug. 1	"	1619	E. Beandry, La Providence, St. Hyacinthe.	7 oz.	19	.....	O. Demers...
" 1	"	1620	R. O. Brodeur, St. Hyacinthe	$\frac{1}{2}$ lb.	15	.....	Eug. Lahine....
" 1	"	1621	S. Bourgeois & Cie, Junction St. Hyacinthe.	3 pkgs.	43	Chas. B. Knox & Co., Johnstown, N.Y.	.....
DISTRICT OF MONTREAL—							
July 9	Gelatin.	58726	Roméo Thouin, 2654 Notre Dame west, Montreal.	3 pkgs	60	.....	Hudon Hebert..
" 9	"	58727	W. Royal, 2542 Notre Dame west, Montreal.	3 "	76	.....	Unknown.....
" 10	"	58728	A. Gravel, 1671 St. James west, Montreal.	3 "	30	.....	Bergeron, Whissell Co., Montreal.
" 10	"	58729	A. Jolicœur, 1707 St. James, Montreal.	3 "	25	Pure Gold Mfg. Co., Ltd., Toronto.	.....
" 22	"	58730	F. Langlois, River Beau-dette.	3 "	30	Standard Imports, Ltd., Montreal.	.....
" 22	"	58731	Joseph Sauvé, Riv. Beau-dette.	3 "	45	Chas. B. Knox & Co., Montreal.	.....
" 23	"	58732	E. Guenette, St. Polycarpe.	3 "	30	Standard Imports, Ltd., Montreal.	.....
" 23	"	58733	T. Boyer, St. Polycarpe.	1 lb.	60	.....	L. Chaput et fils, Montreal.
" 24	"	58734	S. Brunet, Coteau Landing.	3 pkgs	29	.....	Laporte Martin, Montreal.
" 24	"	58735	J. Aumais, Coteau Landing.	1 lb.	50	.....	.....
DISTRICT OF VALLEYFIELD—							
July 4	Gelatin.	58021	L. E. Choquette, Farnham	3 pkgs	38	.....	.....
" 15	"	58022	J. A. N. Bourassa, Valleyfield.	1 lb.	80	.....	L. Chaput fils et Cie, Ltd., Montreal.
" 15	"	58023	Primeau frère, Valleyfield.	3 pkgs	30	.....	.....
" 21	"	58024	Theodule Aubry, Lancaster, Ont.	6 "	75	Chas. B. Knox & Co., Montreal.	.....
" 22	"	58025	J. Boyle, Alexandria.	3 "	30	Pure Gold Mfg. Co., Ltd.	.....
" 26	"	58026	Adam Miller, Huntingdon.	3 "	39	.....	.....
" 26	"	58027	Jno. Smail, Huntingdon.	3 "	36	.....	.....

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.					Remarks.	No. of Sample
	Ash.	Sulphite Parts per 100,000 (SO ₂).	Gelatining power of a 5 p.c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air 2 days.	Reaction with		
					Litmus Paper.		

Concluded.

	p. c.									
.....	2.02	3	Posi- tive.	Nor- mal.	Acid.	Nega- tive.	Nega- tive.	Nega- tive.	.....	1618
.....	0.60	54	"	"	"	"	"	"	.....	1619
.....	1.82	6	"	"	"	"	"	"	Coloured red with an aniline dye.	1620
.....	1.17	32	"	"	"	"	"	"	.....	1621

D. J. KEARNEY, INSPECTOR.

.....	1.45	54	"	"	"	"	"	"	.....	58726
.....	1.95	76	"	"	"	"	"	"	Coloured red with a vegetable dye.	58727
Cox's	2.55	16	"	"	"	"	"	"	.....	58728
Pure Gold Jelly.....	0.57	6	.....	.....	.....	.....	.....	.....	Jelly Powder, Lemon flavour. Coloured yellow with aniline dye. Sugar.	58729
Lady Charlotte.....	1.52	None.	Posi- tive.	Nor- mal.	Neu- tral.	Nega- tive.	Nega- tive.	Nega- tive.	.....	58730
Knox.....	1.00	17	"	"	Acid.	"	"	"	.....	58731
Lady Charlotte.....	1.20	None.	"	"	"	"	"	"	.....	58732
.....	1.70	45	"	"	"	"	"	"	.....	58733
Cox's	2.45	2	"	"	"	"	"	"	Coloured red with an aniline dye.	58734
.....	2.55	21	"	"	"	"	"	"	.....	58735

J. J. COSTIGAN, ACTING INSPECTOR

Cox's Instant Pow- dered.	2.52	1	"	"	"	"	"	"	.....	58021
.....	0.80	7	"	"	"	"	"	"	.....	58022
Lady Charlotte	1.87	trace.	"	"	Neu- tral.	"	"	"	Coloured red with an aniline dye.	58023
.....	1.07	"	"	"	Acid.	"	"	"	Coloured red with a vegetable dye.	58024
.....	1.42	33	"	"	"	"	"	"	.....	58025
Knox Sparkling	1.10	13	"	"	"	"	"	"	.....	58026
Cox's Instant Pow- dered.	2.62	13.	"	"	"	"	"	"	.....	58027

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1913.							
June 24	Gelatin.....	59106	The Anderson Langstaff Co., Kemptville.	3 pkgs	45	Chas. B. Knox Co., Johnstown, N.Y.	H. N. Bate & Sons, Ottawa.
" 28	"	59107	The Mackay Bros., Ltd., Renfrew.	3 "	45	J. & G. Cox, Edinboro, Scot.	Hudon, Hebert & Cie, Montreal.
July 4	"	59108	Cherry & Craig, Ottawa..	3 "	30	Unknown.....	Castle & Co., Ottawa.
" 4	"	59109	F. H. Gülchrist, Ottawa..	3 "	45	Chas. B. Knox, Montreal.	"
" 11	"	59110	Wall & Co., Ottawa.....	3 "	30	Pure Gold Mfg. Co., Ltd., Toronto.	Mrs.
" 11	"	59111	" "		30	Unknown	Unknown.....
" 11	"	59112	Jos. P. Valiquette, Dalhousie, St., Ottawa.	$\frac{1}{2}$ lb..	18	.....	S. J. Major, Ottawa.
" 11	"	59113	" "	$\frac{1}{2}$ "	18	Standard Imports, Ltd., Montreal.	.....
" 11	"	59114	A. E. Rea & Co., Ltd., Ottawa.	$\frac{1}{4}$ "	38	Jas Chalmers Son, Wilmsville, N.Y.	Unknown.....
" 11	"	59115	" "	$\frac{1}{4}$ "	38	J. & G. Cox, Edinboro, Scot.	"

DISTRICT OF KINGSTON—

June 23	Gelatin.....	57319	J. Gilbert, Kingston.....	3 pkgs	45	Cox's, Edinboro, Scot.	.....
" 23	"	57320	P. A. Haffner, Kingston..	3 "	45	C. B. Knox Co., Montreal.	.....
" 23	"	57321	J. Cullen, Kingston ..	3 "	30	" "	.....
" 25	"	57322	J. H. P. Young, Belleville.	3 "	45	Knox Co., Montreal.	.....
" 25	"	57323	Thompson Bros., Belleville.	3 "	45	" "	.....
" 25	"	57324	Estate H. Crozier, Cobourg	3 "	38	Cox .....	.....
" 26	"	57325	H. Bradshaw, Peterboro.	3 "	45	Knox .....	.....
" 26	"	57326	J. E. Lillico, Peterboro...	3 "	45	" .....	.....
" 26	"	57327	P. S. White, Peterboro...	3 "	45	" .....	.....
" 26	"	57328	W. H. Hamilton, Peterboro.	3 "	45	" .....	.....

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					Remarks.	No. of Sample.
	Ash.	Sulphates Parts per 100,000 (SO ₂).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air 2 days.	Reaction with		
					Litmus Paper.		

J. A. RICKEY, INSPECTOR.

	p.c.								
Knox Sparkling No. 1.	1.35	27	Positive.	Normal.	Acid.	Neg- ative.	Neg- ative.	Neg- ative.	59106
Cox's, Guaranteed Absolutely Pure.	2.00	13	"	"	"	"	"	"	59107
Lady Charlotte.....	1.32	Non.	"	"	Neu- tral. Acid.	"	"	"	59108
Knox.....	1.40	38	"	"	"	"	"	"	59119
Pure Gold Quick Gelatin.	1.07	35	"	"	"	"	"	"	59110
Lady Charlotte.....	1.27	Non.	"	"	Neu- tral. Acid.	"	"	"	59111
C. C. F. Brand.....	1.65	54	"	"	"	"	"	"	59112
Fleur de Lys Brand	2.25	49	"	"	"	"	"	"	59113
Chalmers.....	1.37	29	"	"	"	"	"	"	59114
Cox's Instant Pow- dered.	2.64	Trace.	"	"	"	"	"	"	59115

JAS. HOGAN, INSPECTOR.

.....	2.62	6	Positive.	Normal.	Acid.	Neg- ative.	Neg- ative.	Neg- ative.	57319
.....	1.27	54	"	"	"	"	"	"	57320
.....	1.22	25	"	"	"	"	"	"	57321
.....	1.22	2	"	"	"	"	"	"	57322
.....	1.29	29	"	"	"	"	"	"	57323
.....	2.12	5	"	"	"	"	"	"	57324
.....	2.75	3	"	"	"	"	"	"	57325
.....	1.25	32	"	"	"	"	"	"	57326
.....	1.22	48	"	"	"	"	"	"	57327
.....	1.20	21	"	"	"	"	"	"	57328

5 GEORGE V., A. 1915
BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1913							
June 23	Gelatin.	57415	Darroch Bros., Collingwood.	3 pkgs	45		T. Long & Bros., Ltd., Collingwood.
" 24	"	57416	Whitebread Bros., Alendale.	3 "	40		Unknown
" 24	"	57417	J. J. Hatley, Orillia.	3 "	31		MacLarens Imp. Cheese Co., Limited, Toronto.
" 27	"	57418	J. E. Beaton, Oshawa.	3 "	45	Plymouth Rock Gelatine Co., Boston, Mass.	Unknown
" 27	"	57419	Puckett & Scilley, Oshawa.	3 "	45	Knox, Johnston, N.Y.	
July 7	"	57420	Bruce & Sanderson, 377 Parliament St., Toronto.	3 ozs.	15		James Lumbers & Co., Toronto
" 7	"	57421	F. Giles, 282 College St., Toronto.	3 pkgs	30	MacLaren Imperial Cheese Co., Ltd., Toronto.	Unknown
" 7	"	57422	W.B. H. Taylor, 244 Harbor St., Toronto.	3 ozs.	15		T. Kinnear & Co., Toronto
" 8	"	57423	W. Miller, 351 Broadview Ave., Toronto.	3 pkgs	38	Cox	Unknown
" 8	"	57424	A. Provau, 134 King St. East, Toronto.	3 "	45	Knox.	Unknown

DISTRICT OF HAMILTON—

Aug. 25	Gelatin.	58830	W. H. Beattie, Windham St., Guelph.	1 lb.	60	Unknown	
" 25	"	58831	Benson Bros., 25 Windham St., Guelph.	3 pkgs	45	McLarens Ltd., Hamilton.	
" 25	"	58832	Co-operative Association, 41 Quebec St., Guelph.	3 "	45	Chas. B. Knox Co., Montreal.	
" 25	Improved Cherry Jelly	58833	J. C. Hadden, 1 Quebec St., Guelph.	3 "	25	Young Winifield Ltd., Hamilton.	
" 26	Jelly Powder.	58834	Betzner & Co., 48 King St., Berlin.	3 "	30	The Litster Pure Food Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.						Remarks.	No. of Sample.	
	Ash.	Sulphates Parts per 100,000 (SO ₃).	Gelatining power of a 5 p.c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air 2 days.	Reaction with				
					Litmus Paper.	Lead Subacetate Solution (50 gr. 1 26).			5 p.c. Alum Solu- tion.

H. J. DAGER, INSPECTOR.

	p. c.									
.....	1.13	2	Posi- tive	Nor- mal	Acid..	Neg- ative	Neg- ative	Neg- ative		57415
Cox's.	2.45	13	"	"	"	"	"	"		57416
Imperial Sterilized..	1.05	13	"	"	"	"	"	"		57417
Phosphated.....	2.67	6	Neg- ative	"	"	Posi- tive	"	"		57418
No. 3 Knox Improv- ed acidulated Super- ior to phosphated	1.00	22	Posi- tive	"	"	Neg- ative	"	"		57419
Fleur de Lys Brand..	1.92	10	"	"	"	"	"	"		57420
Imperial Sterilized	1.15	16	"	"	"	"	"	"		57421
Dentelles Apperts Chapeaux de Paille Germany	1.32	6	"	"	"	"	"	"		57422
Cox's Instant pow- dered guaranteed absolutely pure.	2.25	3	"	"	"	"	"	"		57423
Knox Sparkling, No. 1.	0.95	21	"	"	"	"	"	"		57424

D. M. CAMERON, INSPECTOR.

.....	1.57	21	Posi- tive	Nor- mal	Acid..	Neg- ative	Neg- ative	Neg- ative		58830
.....	1.40	98	"	"	"	"	"	"		58831
Knox Sparkling.....	1.16	27	"	"	"	"	"	"		58832
Youngs.	0.75	6	.....	.....	.....	.....	.....	.....	Jelly Powder, artifi- cial cherry flavour, red aniline dye and sugar.	58833
.....	0.57	6	.....	.....	.....	.....	.....	.....	Jelly Powder, artifi- cial cherry flavour, yellow aniline dye and sugar.	58834

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1913.							
July	3	Gelatin. . .	54838 Orendorf Bros., Ridge- town.	3 pkgs	45	Chas. B. Knox & Co., Johnstown, N. Y.	
"	3	"	54841 Ellsworth & Sons, Ridge- town.	3 "	45	Chas. B. Knox & Co., Johnstown, N. Y.	
"	3	"	54846 Clark & Sons, Ridgetown.	3 "	45	Chas. B. Knox & Co., Johnstown, N. Y.	
"	7	"	54852 Harry St. Andrews, Cbatham.	3 "	38		A. M. Smith & Co., London.
"	7	"	54857 Geo. A. Young, Chatham.	3 "	45		T. Kenny, Sarnia.
"	8	"	54865 D. M. Squire, Walker- ville.	3 "	45		Unknown.
"	9	"	54867 Miller & Wiggle, Essex.	3 "	45	McLarens, Ltd., Hamilton.	
"	9	"	54869 A. Raines, Essex.	3 "	45	Chas. B. Knox, Montreal.	
"	9	"	54870 R. T. Moran, Leamington	3 "	45		F. Smyth & Co., Windsor.
"	10	"	54873 P. Phillips, Leamington.	3 "	45		Unknown.

DISTRICT OF MANITOBA—

June	26	Gelatin. . . .	48911 F. Fawley, 436 Notre- Dame, Winnipeg.	3 pkgs	45	Chas. B. Knox & Co., Montreal.	
"	26	"	48912 " " "	3 "	40	Gorgie Mills, Edin- boro, Scot.	
"	26	"	48913 John Dyke, William Ave, Winnipeg.	3 "	40	Chas. B. Knox, Montreal.	
"	27	"	48914 W. J. Robinson, Portage Ave, Winnipeg.	3 "	40	Gorgie Mills, Edin- boro, Scot.	
July	2	"	48915 The Central Grocery, 541 Ellice, Winnipeg.	3 "	38	Chas. B. Knox, Montreal.	
"	2	"	48916 " " "	3 "	37	Gorgie Mills, Edin- boro.	
"	3	"	48917 O. Hughes, Pembina St., Winnipeg.	3 "	45	"	
"	3	"	48918 Bain's Grocery, Pembina St., Winnipeg.	3 "	45	"	
"	14	"	48919 T. A. Newman & Bro., Portage la Prairie.	3 "	45		Gorgie Mills, Edinboro, Scot.
"	15	"	48920 Greenstone Grocery, Bran- don.	3 "	45		Knox & Co., Montreal.

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Remarks.	No. of Sample.	
	Ash.	Sulphates Parts per 100,000 (SO ₃).	Gelatining power of a 5 p. c. Solution.	Odour of a 5 p. c. Solu- tion exposed to air for 2 days.	Reaction with				
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1.26).			5 p. c. Alum Solu- tion.

JNO. TALBOT, INSPECTOR.

	p. c.								
Knox Sparkling, No. 1	1.20	29	Posi- tive.	Nor- mal.	Acid.	Nega- tive.	Nega- tive.	Nega- tive.	54838
Knox acidulated. . . .	1.05	21	"	"	"	"	"	"	54841
Knox Sparkling, No. 1.	1.30	33	"	"	"	"	"	"	54846
Cox's Instant pow- dered.	2.37	2	"	"	"	"	"	"	54852
Knox Sparkling, No. 1.	1.07	29	"	"	"	"	"	"	54857
Knox Sparkling. . . .	1.03	16	"	"	"	"	"	"	54865
McLaren's Invincible Granulated.	1.30	None	"	"	"	"	"	"	54867
Knox Sparkling. . . .	1.30	27	"	"	"	"	"	"	54869
.....	1.32	32	"	"	"	"	"	"	54870
Knox Sparkling, No. 1.	1.15	29	"	"	"	"	"	"	54873

A. C. LARIVIÈRE, INSPECTOR.

.....	1.20	48	Posi- tive.	Nor- mal.	Acid.	Nega- tive.	Nega- tive.	Nega- tive.	48911
Cox's Powdered. . . .	2.62	5	"	"	"	"	"	"	48912
.....	1.05	21	"	"	"	"	"	"	48913
Cox's Powdered. . . .	2.10	5	"	"	"	"	"	"	48914
.....	1.32	33	"	"	"	"	"	"	48915
Cox's Powdered	2.35	13	"	"	"	"	"	"	48916
"	2.52	16	"	"	"	"	"	"	48917
"	2.40	1	"	"	"	"	"	"	48918
Cox's.	2.25	14	"	"	"	"	"	"	48919
.....	1.55	17	"	"	"	"	"	"	48920

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
July	2	Gelatin	49909 L. C. Masson, Revelstoke, B.C.	3 pkgs	45	Chas. B. Knox Co., Montreal.	
"	2	"	49910 " " "	3 "	45	J. & G. Cox, Edinburgh, Scot.	
"	2	"	49911 " " "	1 lb.	65		W. H. Malkin & Co., Vancouver
"	16	"	49922 Trail Grocery Co., Trail, B.C.	3 pkgs	45	Chas. B. Knox & Co., Montreal.	
"	16	"	49924 Union Co Op. Association, Rossland, B.C.	3 "	30	Pure Gold Mfg. Co., Toronto.	
"	16	"	49925 Union Co-Op. Association, Rossland B.C.	3 "	40	J. & G. Cox, Edinburgh, Scot.	
"	16	"	49933 Hunter Bros., Rossland, B.C.	3 "	30	Crosse & Blackwell, London, Eng.	
"	28	"	49942 Star Grocery, Nelson, B.C.	3 "	55	Chas. B. Knox & Co., Montreal.	
"	28	"	49944 Bell Trading Co., Nelson, B.C.	3 "	55	"	

DISTRICT OF VANCOUVER—

July	29	Gelatin	54901 Columbia Produce Co., 2334 Granville st., Vancouver, B.C.	3 pkgs	30	Genesee Pure Food Co., Bridgeburgh, Ont.	
"	30	"	54902 Fairview Dept. Stores, 2620 Granville st., Vancouver, B.C.	3 "	40	J. & G. Cox, Edinburgh, Scot.	
Aug.	8	"	54903 G. H. Hodgson, Steveston, B.C.	3 "	45	Chas. Knox & Co., Montreal.	
"	9	"	54904 Gruchy & Carlaw, 5th Ave. and Granville st., Vancouver.	3 "	45	"	
"	9	"	54905 London Grocery Co., 2290 Granville st., Vancouver	3 "	60	Unknown.....	Kelly Douglas, Vancouver.
"	9	"	54906 A. C. Bartig, 2437 Granville st., Vancouver.	3 "	60		W. H. Malkin, Vancouver.

DISTRICT OF VICTORIA—

July	9	Gelatin	53590 Windsor Grocery Co., 817 Govt. st., Victoria, B.C.	1 b...	65	The Grove Chem. Co., Ltd., Apple Bridge Wigan, Eng.	
"	9	"	53592 H. & K. Grocery, 1425 Douglas st., Victoria, B.C.	3 pkgs	60	Chas. B. Knox Co., Montreal.	
"	9	"	53598 R. Erskine & Co., Johnston st., Victoria, B.C.	3 "	36	J. & G. Cox, Edinburgh, Scot.	

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of Opinion).	Results of analysis.						Remarks.	No. of Sample.	
	Ash.	Sulphites Parts per 100,000 (80%).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air 2 days.	Reaction with				
					Litmus Paper.	Lead Sulphacetate Solution (Sp. gr. 1.26.)			5 p.c. Alum Solu- tion.

THOS. PARKER, INSPECTOR.

	p. c.									
Sparkling	1.35	27	Posi- tive.	Nor- mal.	Acid.	Neg- ative.	Neg- ative.	Neg- ative.		49909
.....	2.55	4	"	"	"	"	"	"		49910
Argent	2.22	Trace.	"	"	"	"	"	"		49911
Acidulated	1.07	17	"	"	"	"	"	"		49922
.....	1.15	5	"	"	"	"	"	"		49924
.....	2.50	16	"	"	"	"	"	"		49925
Star	1.12	66	"	"	"	"	"	"		49933
Acidulated	1.12	38	"	"	"	"	"	"		49942
Sparkling	1.37	33	"	"	"	"	"	"		49944

J. F. POWER, INSPECTOR.

Jell O.	0.50	13							Jelly Powder. Artifi- cial strawberry flav- ouring. Red vege- table dye and sugar.	54901
Guaranteed absolu- tely pure.	2.37	6	Posi- tive.	Nor- mal.	Acid	Neg- ative.	Neg- ative.	Neg- ative.		54902
.....	1.37	29	"	"	"	"	"	"		54903
Acidulated granu- lated.	1.37	21	"	"	"	"	"	"		54904
Sheet	0.92	None.	"	"	"	"	"	"		54905
"	0.87	6	"	"	"	"	"	"		54906

D. O'SULLIVAN, INSPECTOR

Silver Leaf Label. . .	1.75	109	"	"	"	"	"	"		53590
Knox Sparkling No.1	1.12	22	"	"	"	"	"	"		53592
.....	1.85	16	"	"	"	"	"	"		53598

5 GEORGE V., A. 1915

BULLETIN No. 273—

Date of collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1913.							
July	15	Gelatin...	53600	Henry W. Driver, 856 Yates st., Victoria, B.C.	3 pkgs	45	Chas. B. Knox, Montreal.
"	15	"	57602	M. Dyrland, 971 Yates st., Victoria, B.C.	3 "	30	J. & G. Cox, Edinburgh, Scot.
"	16	"	57609	W. C. Goode, 541 Johnston st., Victoria, B.C.	1 lb.	75	Nat. Drug & Chem. Co., Victoria, B.C.
"	18	"	57611	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	1 "	50	Loewenberg & Co., Victoria, B.C.
"	18	"	57614	Copas & Young, 633 Fort st., Victoria, B.C.	1 "	50	R. P. Rithet & Co., Victoria, C.B.
"	18	"	57616	Acton Bros., 1317 Douglas st., Victoria, B.C.	1 "	60	The Grove Chem. Co., Appley Bridge, Wigan, Eng.
"	18	"	57617	Dixie H. Ross & Co., 1317 Govt. st., Victoria, B.C.	1 "	50	W. P. Downey, Montreal.

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report, (Is not an expression of Opinion)	Results of Analysis.					Remarks.	No. of Sample.
	Ash.	Sulphate Parts per 100,000 (SO ₂).	Gelatining power of a 5 p. c. Solution.	Odour of a 5 p.c. Solu- tion exposed to air for 2 days.	Reaction with.		
					Litmus Paper.		

Concluded.

	p.c.								
Knox Sparkling No.1	1.25	16	Posi- tive.	Nor- mal.	Acid.	Neg- ative.	Neg- ative.	Neg- ative.	53400
.....	2.42	2	"	"	"	"	"	"	57602
.....	2.37	76	"	"	"	"	"	"	57609
.....	1.85	21	"	"	"	"	"	"	57611
Gelatin Argent. ...	1.82	5	"	"	"	"	"	"	57614
Silver Leaf Label ...	1.65	69	"	"	"	"	"	"	Coloured red with ani- line dye. 57616
White Duck Brand Superior.	1.80	76	"	"	"	"	"	"	57617

5 GEORGE V., A. 1915

APPENDIX Q.

BULLETIN No. 274—LARD AND LARD SUBSTITUTES.

OTTAWA, January 19, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report of work done upon 243 samples of lard and lard substitutes as sold in Canada. This collection was made in June and July, 1913.

The general nature of these samples, as offered for sale, may be stated as follows :—

	Samples.
Offered for sale as lard	157
“ “ “ compound lard.	46
Not sold as lard.....	40
Total.....	243

Of 157 samples sold as lard are found :—

Genuine.....	145
Adulterated.....	5
Doubtful.....	7
Total	157

Adulteration is charged for the reasons following :—

- No. 58947 sold as lard, is a compound lard.
- No. 58755 sold as lard, contains 3.45 p. c. water.
- No. 58757 sold as lard, is a compound lard.
- No. 58049 sold as lard, contains 1.67 p. c. water.
- No. 58814 sold as lard, contains 1.47 p. c. water.

Six (6) samples are judged as doubtful, because the results of analysis indicate the presence of cotton seed products, but in so small amount as to be considered possibly accidental. No. 1641 was sold as lard; but the vendor declared its compound character after the sale. It is doubtful whether this should relieve him of the charge of adulteration.

Forty six (46) samples sold as compound lard are found as follows :—

	Samples.
Genuine compound lard.	43
Adulterated.....	3
Total.....	46

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Adulteration consists as below :

No. 50633, contains 1.93 p.c. water.

No. 57456, contains 1.33 p.c. “

No. 58802, contains 1.47 p.c. “

Forty (40) samples are sold by various names, and not as lard.

Of this number 38 must be regarded as fulfilling the conditions of sale. Two samples sold as Deb. No. 57454, and as Flex, No. 57457, respectively, must be regarded as adulterated, inasmuch as they contain excess of water, and of mineral solids ; among which are found distinct traces of nickel, a metal which as well as its soluble compounds, is poisonous.

I beg to recommend publication of this report as Bulletin No. 274.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher
DISTRICT OF NOVA SCOTIA—							
1913.							
July 11	EasifirstShortening.	54127	Ritcey & Corkum, Halifax, N. S.	1 lb.	13	Gunn Co., Ltd., Toronto.	Mfrs.
" 11	Lard.	54128	P. T. Shea, Halifax, N. S.	1 "	20	J. Morrell & Co., Ottumwa, U. S.	"
" 11	Chopped Suet.	54129	Bentley & Layton, Ltd., Halifax, N. S.	1 "	20	Vendors.	
" 11	Compound Lard.	54130	W. E. Ford, Halifax, N. S.	1 "	16	M. K. Fairbanks Co., Montreal.	Unknown
" 11	Crisco.	54131	City Provision Store, Halifax, N. S.	1½ "	30	Proctor, Gamble & Co., Cincinnati, U. S.	Jno. Tobin & Co., Halifax, N. S.
" 11	Chopped Suet.	54132	" " "	1 "	20	Vendor	
" 14	Lard.	54133	Jos. A. Leaman & Co., Halifax, N. S.	1 "	20	Vendors	
" 14	Chopped Suet.	54134	" " "	1 "	20	"	
" 14	Lard, Compound.	54135	Geo. Henley, Halifax, N. S.	1 "	16	Swift & Co., Toronto.	Bauld Bros. Ltd., Halifax, N. S.
" 14	Crisco.	54136	R. N. McDonald Estate, Halifax, N. S.	1½ "	30	Proctor Gamble & Co., Cincinnati, U. S.	Jno. Tobin & Co., Halifax, N. S.
" 16	Compound.	54137	Wm. Law & Co., Yarmouth, N. S.	1 "	12	"	
" 16	Compound Lard.	54138	P. A. Yerxa, Yarmouth, N. S.	1 "	15	Laing Packing Co., Montreal.	
" 24	Kokobut.	54139	A. F. Ross & Co., Truro, N. S.	2 "	40	Coaco Nut Butter. Ltd., Montreal.	
" 25	Lard.	54140	J. W. Smeltzer, Lunenburg, N. S.	1 "	18	Wm. Davies Co., Ltd., Toronto.	
" 25	"	54141	B. G. Oxner, Lunenburg, N. S.	1 "	18	Gunn's Ltd., Toronto.	

DISTRICT OF NEW BRUNSWICK—

June 5	Lard	50626	2 Barkers, Ltd., St. John, N.B.	1½ lb.	27	Jno. P. Squire & Co., Boston, Mass.	.....
" 23	Crisco	50627	M. E. Grass, St. John, N.B.	1 "	30	The Proctor & Gamble Co., Cincinnati, U.S.	.....
" 23	Easifirst Shortening.	50628	Walter Gilbert, St. John, N.B.	2 "	36	Gunn Ltd., Toronto.	.....
July 2	"	50629	E. J. Hieatt, St. John, N.B.	1½ "	18	" " .....	.....
" 3	Lard, Compound.	50630	Geo. J. Smith, St. John, N.B.	1½ "	18	The Harris Abbot Co., Ltd., Toronto.	.....
" 3	Lard	50631	W. S. Knowles, St. John, N.B.	1½ "	30	Slipp & Flewelling, St. John, N.B.	.....
" 3	"	50632	J. H. Shaw Estate, St. John, N.B.	1½ "	30	Swift, U.S.A. ....	.....

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter Reading at 40°C.	Iodine Number (Hanus).		
	p. c.					
	Traces.	Crimson	56.5		54127	Not sold as lard.
Sold as pure	"		51		54128	Genuine.
					54129	Not sold as lard.
	Traces.	Crimson	57.5		54130	Sold as compound.
	"		55		54131	True to name. Not sold as lard.
	"		47		54132	Not sold as lard.
Sold as pure	0.15		50		54133	Genuine.
					†54134	Not sold as lard.
Jewel Brand	0.14	Crimson	58.5		54135	Sold as compound.
Purely Vegetable	Traces.		56		54136	True to name. Not sold as lard.
Flake white	"	Crimson	59		54137	Sold as compound.
Loring's	"	"	57		54138	" "
Pure Vegetable Butter	"		36.5		54139	True to name. Not sold as lard.
Sold as pure	"		49.5		54140	Genuine.
Maple Leaf Brand	"		50		54141	"

J. C. FERGUSON, INSPECTOR.

	Traces.		52		50626	Genuine.
	"		55.5		50627	True to name. Not sold as lard.
	"	Crimson	57.5		50628	Not sold as lard.
	"	Red	57.5	94.50	50629	" "
Domestic	"	Crimson	57	90.78	50630	Sold as compound.
Leaf Lard	"		51		50631	Genuine.
Silver Leaf Brand. Guar- anteed pure Lard.	0.15		51		50632	"

* No determination made. Sample of suet badly moulded. † No determination. Very mouldy sample.

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BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1913.							
July	3 Compound..	50633	Chas. Robinson, St. John, N.B.	1½ lb.	20	N. K. Fairbanks Co., Ltd., Montreal.	
"	3 Substitute ...	50634	Thos. J. Dean, St. John, N.B.	1½ "	25	Swift, Canadian Co., Ltd., Toronto.	
"	8 Compound....	50635	H. O. Neill, Fredericton, N.B.	1½ "	20	The N. K. Fairbanks Co., Ltd., Montreal.	
"	9 Lard	50636	Geo. H. Dent, Woodstock, N.B.	1½ "	30		The Geo. E. Barbour Co., Ltd., Woodstock, N.B.
"	11 "	50637	J. W. Craig, Perth, N.B.	1½ "	30		Purves & Co., St. Stephen, N.B.
"	22 "	50638	Sussex Mercantile Co., Ltd., Sussex, N.B.	2 "	40	Gunns, Ltd., Toronto.	
"	22 "	50639	W. McD. Campbell, Sussex, N.B.	1½ "	30	Matthews, Laing Ltd., Toronto.	
"	23 "	50640	J. A. Marven, Moncton, N.B.	1½ "	21	Morris & Co., Chicago, Ill.	

DISTRICT OF QUEBEC—

June	20 Lard	37095	Joseph Paquet, 128 rue du Pont, Quebec.	1½ lb	26	T. M. Sinclair Co.	T. E. Grégoire..
"	23 "	37096	Hamel & Bédard, 728 rue St-Joseph, Quebec.	1½ "	30	Ingersoll Packing Co., Ingersoll.	P. T. Busière & Cie.
"	26 "	37097	Arthur Rinfret, 414 rue St-Joseph, Quebec.	1½ "	27	F. W. Fearman Co., Ltd., Hamilton.	Octave Jacques.
"	26 "	37098	Joseph Lyonnais, 50 rue Dorchester, Quebec.	1½ "	40	F. M. Sinclair, Cedar Rapids.	"
"	26 "	37099	Cantin & Frère, 271 rue St-Joseph, Quebec.	1½ "	30	O'Keefe & Drew, Chatham, Ont.	J. B. Renaud & Cie.
"	27 "	37100	Drolet & Bédard, 12 rue Bagot, Quebec.	1½ "	30	Vendors	
"	27 "	56101	Oliver Bacon, 24 rue Hermine, Quebec.	1½ "	30	Louis Drolet	Mfr.
"	27 "	56102	T. Gagnon, 132 rue Sauvageau, Quebec.	1½ "	30	Sinclair, Cedar Rapids.	Desire & Drolet.
"	27 "	56103	Joseph Cauchon, Sauvageau et Franklin, Quebec.	1½ "	30	Vendor..	
"	27 "	56104	Joseph Proulx, 284 rue Arago, Quebec.	1½ "	30	Fowler's, Hamilton.	Turcotte & Frère.
"	27 "	56105	T. Giffard, 133 rue Victoria, Quebec.	1½ "	27	O'Keefe, Chatham.	J. B. Renaud & Cie.
"	30 "	56106	Jean Drolet, 321 Prince-Edouard, Quebec.	1½ "	27	Vendor	
"	30 "	56107	T. E. Morency, 172 rue Dorchester, Quebec.	1½ "	30	"	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				Remarks and Opinion of the Chief Analyst.
	Under.	Halphen Test.	Butyro Refracto- meter Reading at 40°C.	Iodine Number (Hanus).	

J. C. FERGUSON, INSPECTOR—*Concluded.*

	p. c.				
Boar's Head	1 93	Crimson . . .	59	98 30	50633 Sold as compound. Excess water. Adulterated.
Jewel Brand	Traces.	"	53	.....	50634 Not sold as lard.
Boar's Head	"	"	58	.....	50635 Sold as compound.
Swift's Silver Leaf Lard	"	.....	53	.....	50636 Genuine.
" " " " " " "	"	.....	52 5	.....	50637 "
" " " " " " "	"	.....	51	.....	50638
" " " " " " "	"	Light red.	51 5	.....	50639 "
White Leaf Lard . . . . .	"	.....	52 5	.....	50640 "

F. X. W. E. BELAND, INSPECTOR.

.....	Traces.	Faint pink.	50 5	62 79	37095 Genuine.
.....	"	.....	50	.....	37096 "
.....	"	.....	51	.....	37097 "
.....	"	.....	51	.....	37098 "
.....	"	.....	50 5	.....	37099 "
.....	"	.....	50	.....	37106 "
.....	"	53	56101 "
.....	"	51 5	56102 "
.....	0 25	51	56103 "
.....	Traces.	51 5	56104 "
.....	"	51	56105 "
.....	"	51	56106 "
.....	"	52	56107 "

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BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1913.							
June 30	Lard	56108	Louis Tremblay, 192 rue Dorchester, Quebec.	1½ lb .	30	Vendor	
" 30	"	56109	Dussault & Audy, 94 rue Dorchester, Quebec.	1½ " .	30	Vendors	

DISTRICT OF EAST QUEBEC—

June 24	Lard	53323	L. J. Fournier, Mont- magny, Quebec.	1½ lb .	30	O'Keefe & Drew, Chatham, Ont.	
" 24	"	53324	Dame J. A. Poliquin, 1½ Montmagny, Quebec.	1½ " .	27	Sinclair, Toronto.	
" 24	"	53328	A. N. Normand, Mont- magny, Quebec.	1½ " .	30	Imperial Pure Lard, Hamilton.	
" 24	"	53332	J. Fournier, St. Thomas, P. Q.	1½ " .	30	Sinclair, Cedar Rapids, Iowa.	
" 24	"	53336	A. Letourneau, Mont- magny, Quebec.	1½ " .	35	Matthews Laing, Montreal.	
" 24	"	53337	N. Letourneau, Mont- magny, Quebec.	1½ " .	27	O'Keefe & Drew, Chatham, Ont.	
July 2	"	53339	F. A. Fournier, Mont- magny, Quebec.	1½ " .	30	Gunn's Ltd., Tor- onto.	
" 2	"	53341	M. Lemieux, Montmagny, Quebec.	1½ " .	30	..... Morris & Co., Montreal.	
" 2	"	53347	J. A. Caron, Montmagny, Quebec.	1½ " .	30	Gunn's Ltd., West Mfrs. Toronto.	
" 2	"	53348	N. D. Laberge, St. Thomas, P. Q.	1½ " .	30	" " "	
" 2	"	53353	J. Z. Guimond, Cape St. Ignace, P. Q.	1½ " .	30	T. E. Sinclair, Cedar Rapids, Iowa.	
" 2	"	53355	V. Bernier, Cape St. Ignace P. Q.	1½ " .	30	The Harris Abat- toir, West Tor- onto.	
" 2	"	53356	A. Dalaire, Cape St. Ignace, P. Q.	1½ " .	30	Ingersoll Packing Co., Ont.	
" 2	"	53357	Elz Boulé, Cape St. Ignace, P. Q.	1½ " .	30	T. M. Sinclair & Co., Iowa.	
" 2	"	53358	Z. Bernier, Cape St. Ignace, P. Q.	1½ " .	30	Gunn's Ltd., West Toronto.	

DISTRICT OF THREE RIVERS—

June 20	Lard, Com- pound.	58942	L. A. Boisvert, Joliette, P. Q.	2 pts..	36	O'Keefe & Drew, Chatham, Ont.	
" 24	Lard, Com- pound.	58944	W. Briquette, St. Felix de Valois, P. Q.	5 lbs..	70	N. K. Fairbank, Ltd., Montreal.	
" 25	Lard, Com- pound.	58945	I. H. Chaine, Three Rivers, P. Q.	1½ " .	21	" " "	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Hulphen Test.	Butyro Refracto- meter Reading at 40°C.	Iodine Number (Hanus).		

Concluded.

	p.c.					
.....	Traces..	.....	50	.....	56198	Genuine.
.....	0.32	.....	51	.....	56109	"

ALP. PELLETIER, INSPECTOR.

.....	Traces..	.....	52	.....	53323	Genuine.
.....	"	.....	50	.....	53324	"
.....	"	.....	52.5	.....	53328	"
.....	"	.....	52.5	.....	53332	"
.....	" .. Pink.	.....	52.5	62.99	53336	"
.....	"	.....	52.5	.....	53337	"
.....	"	.....	51	.....	53339	"
.....	"	.....	52	.....	53341	"
.....	"	.....	52	.....	53347	"
.....	"	.....	51	.....	53348	"
.....	"	.....	52.5	.....	53353	"
.....	" .. Pink.	.....	52	60.25	53355	"
.....	"	.....	52	.....	53356	"
.....	" .. Faint pink..	.....	52	64.39	53357	"
.....	" .. " ..	.....	51	60.52	53358	"

Dr. V. P. LAVALLEE, INSPECTOR.

.....	Traces..	51	58942	Sold as compound.
.....	" .. Crimson.	58.5	58944	" ..
.....	" .. "	57.5	58945	" ..

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BULLETIN No 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
June 25	Lard . . .	58946	O. Carignan Fils, Three Rivers.	1 pail.	60	Ingersoll Packing Co.	
" 30	"	58947	Bourret et Fils, Louisville.	3 lbs.	39	Matthews-Laing Co., Montreal.	
" 30	Lard Compound.	58948	Isaac Guiguère, Louisville.	3 "	37	N. K. Fairbank, Ltd., Montreal.	Laporte Martin, Montreal.
July 6	Lard	58977	Deschenes et Picard, Joliette.	3 "	54	Fowlers, Hamilton	
" 6	"	58978	J. M. Pelletier, Joliette.	3 "	54	Laing-Matthews, Montreal.	
" 8	"	58979	W. H. Lacasse, L'Assomption.	3 "	50	Davies & Co., Ltd., Montreal.	
" 10	"	58980	A. Amirault, L'Epiphanie.	3 "	57	W. Davies, Ltd., Montreal.	
" 10	"	58981	Maria Racette, L'Epiphanie.	3 "	54	"	
" 12	"	58982	Chevalier et Magnan, Joliette.	3 "	45	Laing-Matthews, Montreal.	
" 14	"	58983	Magnan et Chevalier, Joliette.	3 "	45	W. Davies Co., Ltd., Montreal.	
" 14	"	58984	L. A. Chartier, Joliette.	3 "	53	Laing-Matthews, Ltd., Montreal.	

DISTRICT OF EASTERN TOWNSHIPS—

July 14	Lard	1629	Isaie Giroux, Coaticook.	3 lbs.	54	Vendor	
" 14	Ko-Ko-But . .	1630	Woodman & McKee, Coaticook.	1 tin.	25	D. M. Coconut Butters, Ltd., Montreal.	
" 16	Crisco	1631	Denault Grain & Prod. Co., Sherbrooke.	1 "	30	Procter & Gamble Co., Cincinnati, Ohio.	Forbes & Nadeau, Montreal.
" 17	Lard	1632	Gosselin & Lussier, Weedon.	5 lbs.	90	Fowlers Canad. Co., Ltd., Hamilton.	
" 22	"	1633	Au Bon Marché, Ltd., Black Lake.	3 "	55	"	Lafontaine et Frère, Black L.
" 23	"	1634	Gagné & Rodrigue	5 "	90	F. M. Sinclair & Co., Ltd., Cedar Rapids, Iowa.	
" 24	"	1635	Mackenzie & MacIver, Scottstown.	3 "	60	The Hovey Bros. Packing Co., Sherbrooke.	
" 28	"	1636	Geo. W. Buzzell & Co., Abbotsford.	3 "	55	Matthews-Laing, Ltd., Montreal.	
" 28	"	1637	C. A. Phaneuf, Cesaire.	St. 1 "	18	"	
" 29	"	1638	H. J. Desautels, Angèle, Rouville.	St. 1½ "	27	J. B. Deschamps & fils, Montreal.	
" 30	"	1639	Jos. Guertin, Bevil.	1½ "	27	Swift Canad. Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter Reading at 40° C.	Iodine Number (Hanus).		

Concluded.

	p. c.				
.....	Traces.	.....	50.5	.....	58946 Genuine.
.....	"	Crimson..	57.5	90.67	58947 Adulterated containing cotton seed oil.
.....	0.62	"	58	.....	58948 Sold as compound.
.....	Traces.	.....	50.5	.....	58977 Genuine.
.....	"	Red	51	62.26	58978 Doubtful. See p. 2.
.....	"	.....	50	.....	58979 Genuine.
.....	"	.....	50	.....	58980 "
.....	"	.....	50.5	.....	58981 "
.....	0.11	Red ..	51	60.10	58982 Doubtful. See p. 2.
.....	Traces.	.....	51	.....	58983 Genuine.
.....	"	Pink.....	51	65.64	58984 Doubtful. See p. 2.

J. C. ROULEAU, INSPECTOR.

.....	Traces.	.....	50	.....	1629 Genuine.
.....	"	.....	36.5	5.52	1630 Not sold as lard.
.....	"	.....	55	.....	1631 True to name, not sold as lard.
.....	"	.....	51	.....	1632 Genuine.
.....	0.24	.....	51	.....	1633 "
.....	Traces.	.....	52	.....	1634 "
.....	"	.....	49.5	.....	1635 "
Labelled pure..	"	Faint pink..	51	62.19	1636 "
.....	"	Pink..	52	62.51	1637 "
.....	"	"	52	60.71	1638 "
.....	"	51	1639 "

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BULLETIN No 271—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
July 31	Lard	1640	J. B. Courchesnes, Drummondville.	1½ lbs.	33	Vendor	
" 31	"	1641	J. B. Tremblay, Drummondville.	1½ "	23	Fairbanks Co., Ltd, Montreal	
Aug. 1	"	1642	Leop. Beaudry, La Providence, St. Hyacinthe.	1½ "	30	Vendor	
" 1	"	1643	Gregoire Freres, St. Hyacinthe.	3 "	50	Fowler's Canadian Gunn, Co., Ltd., Montreal.	Langlois & Cie.
DISTRICT OF MONTREAL—							
July 8	Lard	58746	F. G. Flood, 252 Lagachetiere St. west, Montreal.	1½ lbs.	30	Unknown	
" 8	"	58747	S. Whitehead, 248 Lagachetiere St. west, Montreal.	1½ "	30	Whyte-Packing Co.	
" 8	"	58748	H. Lalande, 351 Orlean St., Maisonneuve.	1½ "	27	Matthews Ltd., Montreal.	
" 8	Shortening.	58749	Phaneuf & Carrière, 76 Duquette St., Montreal.	1½ "	23	Gunn Ltd., Toronto.	
" 14	Lard	58750	A. Bernier, 37 Frontenac St., Montreal.	1½ "	27	W. Champagne, Montreal.	
" 14	"	58751	C. Rollin, 108 Frontenac St., Montreal.	1½ "	27	Vendor	
" 14	"	58752	Jacob Levi, 1421 DeMontigny, St., Montreal.	1½ "	29	Gunn, Langlois & Cie, Montreal.	
" 14	"	58753	N. Bolduc, 115 Iberville St., Montreal. "	1½ "	30	F. W. Fearman, Co., Ltd., Hamilton.	
" 14	"	58754	J. Forest, 1393 St. Catharine St. E., Montreal . . .	1½ "	27	Gunn, Langlois, Montreal.	
" 22	"	58755	F. Langlois, River Beaudette.	1½ "	27	Hudon & Orsali, Montreal.	
" 22	"	58756	Joseph Sauvé, River Beaudette.	2 "	38	The Wm. Davies Co., Ltd., Montreal.	
" 23	"	58757	Mess. Thériault & Le Blanc, St. Polycarpe.	1½ "	24	Nat. Pack. and Prov. Co., Quebec.	
Aug. 6	"	58758	E. Martin, 203 Laurier Ave. west, Montreal.	1½ "	30	The Whyte Pack. Co., Ltd., Stratford, Ont.	
" 6	"	58759	John Sullivan, Laurier Esplanade Ave., Montreal.	1½ "	30	Fowler's Canadian Co., Ltd., Hamilton.	
" 6	"	58760	Emile Gaudry, 31 Laurier Ave. west, Montreal.	1½ "	30	Gunn, Langlois & Co., Montreal	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen. Test	Buero Refracto- meter Reading at 40°c.	Iodine Number (Hanus).		

Continued.

	p. c.					
.....	Traces.....	51	.....	1640	Genuine.	
After purchase, was in- formed it was a mix- ture.	" .. Crimson....	57.5	92.27	1641	See inspector's report. Doubtful.	
.....	0.42	50	.....	1642	Genuine,	
.....	Traces.....	52	.....	1643	"	

D. J. KEARNEY, INSPECTOR.

.....	Traces.....	51.5	.....	58746	Genuine.	
.....	"	52	.....	58747	"	
.....	"	52	.....	58748	"	
.....	" .. Crimson....	58	.....	58749	Not sold as lard.	
.....	"	51.5	.....	58750	Genuine.	
.....	"	51	.....	58751	"	
.....	" .. Faint pink ..	51.5	62.36	58752	"	
Famous Star Band..	0.12	51	.....	58753	"	
.....	Traces.....	52	.....	58754	"	
Swift's	3.45	51.5	.....	58755	Excess water. Adulterated.	
.....	Traces.....	51.5	.....	58756	Genuine.	
.....	" .. Crimson...	53	80.16	58757	Adulterated. Contains cotton seed oil.	
.....	"	50.5	.....	58758	Genuine.	
.....	"	51	.....	58759	"	
.....	"	50	.....	58760	"	

5 GEORGE V., A. 1915

BULLETIN No. 274—

				Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913.							
July	2 Lard	58036	J. Dallaire, Lachute, P.Q.	1½ lb.	30	Matthews-Laing, Ltd.	
"	2 "	58037	J. D. Campbell, Lachute, P. Q.	2 "	40	O'Keefe & Drew, Chatham, Ont.	
"	4 Compound.	58038	Arthur Bisset, Farnham, P. Q.	1½ "	21	N. K. Fairbanks Co.	
"	4 Lard	58039	R. Bernard, Farnham, P. Q.	1½ "	30	A. Archambault, Farnham.	
"	10 "	58040	P. J. Roy, St. Johns, P. Q.	1½ "	27	Wm. Davies Co., Ltd.	
"	10 Shortening.	58041	E. Leblanc, St. Johns, P. Q.	1½ "	23	Gunns Ltd.	
"	10 Lard	58042	V. Gregoire, St Johns, P. Q.	1½ "	27		Stewart & Denault, St. Johns, P. Q.
"	10 "	58043	Vallée & Montambault, St. Johns, P. Q.	1½ "	27	Morris Co., Chicago.	
"	10 "	58044	Leduc et Frère, Valleyfield, P. Q.	1½ "	28		
"	15 "	58045	J. A. N. Bourassa, Valleyfield, P. Q.	1½ "	27		
"	15 "	58046	Primeau Frères, Valleyfield, P. Q.	1½ "	27		
"	21 Compound.	58047	Theodule Aubry, Lancaster, Ont.	1½ "	25		
"	21 Lard.	58048	D. McRae, Lancaster, Ont.	1½ "	27	Wm. Davies Co., Ltd., Montreal.	
"	21 "	58049	John Caron, Lancaster, Ont.	1½ "	24	Swifts Canad. Co., Ltd., Toronto.	
"	26 "	58050	Adam Miller, Huntingdon, Ont.	1½ "	30	Matthews-Laing, Ltd., Montreal.	

DISTRICT OF OTTAWA—

June	28 Crisco.	59136	The Mackay Bros. Ltd., Renfrew, Ont.	1½ lb.	35	The Proctor Gamble Co., Cincinnati, O.	Robertson Nicolae, Kingston.
"	28 Cottolene.	59137	Michael Vice, Renfrew, Ont.	1½ "	20	Fowlers Canadian Co., Hamilton.	Manufacturers..
"	30 Lard, Compound.	59138	Baxter & Co., Falls, Ont.	3 "	50	Geo. Matthews Co. Ltd., Hull, P.Q.	"
"	30 Lard, Compound.	59139	A. T. Elliott, Falls, Ont.	1½ "	30	Swift Canadian Co.	"
"	30 Lard.	59140	Jno Anderson, Falls, Ont.	2 "	38	The Whyte Pack Co., Ltd., Stratford.	"
"	30 Lard, Compound.	59141	Jno. Anderson, Falls, Ont.	2 "	34	The Jones P. & P. Co., Ltd., Smith's Falls.	"
"	30 Lard, Compound.	59142	McLean Bros., Falls, Ont.	1½ "	23	Gunns Ltd., Toronto.	"

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test	Butyro Refracto- meter Reading at 40°c.	Iodine Number (Hanus).		

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.					
.....	Traces.	Pink..	51.5	60.92	58036	Genuine.
.....	"	.....	51	.....	58037	"
.....	"	Crimson..	58	.....	58038	Sold as compound.
.....	"	Faint Pink..	50.5	58.61	58039	Genuine.
.....	"	.....	50.5	.....	58040	"
Easifirst.....	"	Crimson....	56.5	.....	58041	Not sold as lard.
.....	"	.....	50.5	.....	58042	Genuine.
.....	"	Faint Pink..	51	64.27	58043	"
.....	"	.....	52	.....	58044	"
.....	"	.....	50.5	.....	58045	"
.....	"	.....	50.5	.....	58046	"
Fairbanks...	"	Crimson ..	58	96.04	58047	Sold as compound.
.....	"	.....	51.5	.....	58048	Genuine.
.....	1.67	.....	51.5	.....	58049	Excess water adulterated.
.....	Traces.	Light Pink..	51	61.79	58050	Genuine.

J. A. RICKEY, INSPECTOR.

Purely Vegetable, guar- anteed.	Traces..	.....	55.5	.....	59136	True to name.	Not sold as lard.
Labelled Eclipse Com Lard sold as Cottolene.	" ..	Crimson....	58.5	90.63	59137	"	"
Buttercup Brand.....	" ..	" ..	55	.....	59138	Sold as compound.	
.....	" ..	" ..	56.5	.....	59139	"	"
White Pure Lard. ....	" ..	.....	50.5	.....	59140	Genuine.	
Ridora Brand.....	" ..	Crimson....	57.5	.....	59141	Sold as compound.	
Easifirst Shortening.....	" ..	" ..	57	.....	59142	"	"

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
July 3	Lard Compound.	59143	J. Y. Patrick, Westboro, Ont.	2 lbs.	30	Gunn, Ltd., Toronto.	Manufacturer...
" 3	Lard.....	59144	A. J. Lasalle, Westboro, Ont.	2 "	36	O'Keefe & Drew, Chatham, Ont.	H. N. Bate & Sons, Ottawa.
" 3	"	59145	Graham & Acres, Westboro, Ont.	2 "	36	Matthews Laing, Ltd., Hull.	Manufacturer...
" 4	"	59146	F. H. Gilchrist, Ottawa.	2 "	36	Fowlers Canadian Co., Hamilton.	" ..
" 4	"	59147	H. Richardson, 1087 Wellington st., Ottawa.	1½ "	27	Wm. Davies Co., Ltd., Montreal.	" ..
" 4	Cottolene	59148	A. G. Hannah, Ottawa.	1½ "	25	Fairbanks, Montreal.	Bow & Co., Toronto.
" 11	Lard Compound.	59149	Jos. P. Valiquette, Dalhousie st., Ottawa.	1½ "	23	The Jones P. & P. Co., Ltd., Smith's Falls.	Manufacturer...
" 31	Crisco.....	59150	A. E. Rea Co., Ltd., Ottawa.	3 tins.	90	The Proctor-Gamble Co., Cincinnati, O.	Unknown ..

DISTRICT OF KINGSTON—

June 23	Lard.....	57334	J. Gilbert, Kingston....	1½ lbs	27	Gunn Co., Toronto	.....
" 23	"	57335	A. Glover, Kingston....	1½ "	27	F. W. Fearman, Hamilton.	.....
" 22	"	57336	J. E. Purdy, Kingston....	1½ "	27	Gunn Co., Toronto	.....
" 31	"	57337	S. Jackson, Kingston....	1½ "	27	Freeman Co., Hamilton.	.....
" 22	"	57338	C. Saunders, Kingston....	1½ "	30	Gunn Co., Toronto	.....
" 23	"	57339	C. H. Pickering, Kingston.	1½ "	27	Fowler Co., Hamilton.	.....
" 23	"	57340	E. S. Suddard, Kingston	1½ "	27	Gunn Co., Toronto	.....
" 23	"	57341	D. Couper, Kingston....	1½ "	25	Geo. Matthews, Peterboro.	.....
" 23	"	57342	J. Crawford, Kingston....	1½ "	27	Gunn Co., Toronto	.....
" 23	"	57343	J. Redden Co., Kingston.	1½ "	28	F. W. Fearman, Hamilton.	.....
" 25	"	57344	W. H. Lanning, Belleville	1½ "	27	Fowler Co., Hamilton.	.....
" 25	"	57345	J. H. P. Young, Belleville	1½ "	27	Fearman, Hamilton.	.....
" 25	"	57346	Thompson Bros., Belleville.	1½ "	27	Gunn Co., Hamilton.	.....
" 25	"	57347	Estate H. Crozier, Cobourg.	1½ "	27	Fowlers Co., Hamilton.	.....
" 26	"	57348	P. S. White, Peterboro....	1½ "	30	Geo. Matthews Co. Peterboro.	.....

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halpben Test	Butyro Refracto- meter Reading at 40° c.	Iodine Number (Hanus).		

Concluded

	p. c.					
Easifirst Shortening	Traces.	Crimson . . .	57.5	.....	59143	Sold as compound.
Guaranteed absolutely pure.	"	.....	51.5	.....	59144	Genuine.
Labelled pure lard choice quality.	"	Pink.	51	60.42	59145	"
L. & S. Best Brand Fow- lers Pure Lard.	"	"	50.5	61.02	59146	"
Labelled pure lard.	"	.....	51	.....	59147	"
.....	"	Crimson . .	57	.....	59148	True to name. Not sold as lard.
Ridora Brand	"	"	58	.....	59149	Sold as compound.
Guaranteed purely vege- tal.	"	.....	55.5	.....	59150	True to name. Not sold as lard.

JAS. HOGAN, INSPECTOR.

.....	Traces.	.....	51	.....	57334	Genuine.
.....	"	.....	51	.....	57335	"
.....	"	.....	51	.....	57336	"
.....	"	.....	50.5	.....	57337	"
.....	"	.....	50.5	.....	57338	"
.....	"	Pink.	52	61.51	57339	"
.....	"	.....	51	.....	57340	"
.....	"	.....	51	.....	57341	"
.....	"	.....	51	.....	57342	"
.....	"	Crimson . . .	52	63.61	57343	Doubtful. See p. 2.
.....	"	.....	51.5	.....	57344	Genuine.
.....	"	Pink.	51.5	60.84	57345	"
.....	"	.....	50	.....	57346	"
.....	"	.....	51	.....	57347	"
.....	"	.....	51	.....	57348	"

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1913.							
June 24	Crisco	57445	T. B. Cramp, Orillia.....	1 tin	35	Proctor Gamble Co., Cincinnati, O.	Davidson Hay Co., Ltd., Toronto
" 24	Lard	57446	Sinclair & Co.	1½ lb.	27	Gunns Ltd., Toronto.	
" 25	"	57447	H. J. Buchanan, Barrie..	1½ "	30	F. W. Fearman Co., Hamilton.	
" 25	Easifirst	57448	P. Kearns, Barrie..	1½ "	23	Gunns Ltd., Toronto.	
" 27	Snow Drift Oil	57749	J. E. Waterhouse, Whitby	2 tins.	76	The Southern Cotton Oil Co.	T. Kinnear & Co. Ltd., Toronto.
" 30	Lard, Compound.	57450	The Harris, Abattoir Co., Ltd., Toronto.	2 lb.	23	Vendors.....	
July 2	Cotosuet	57451	Swift's Canadian Co., Ltd., Toronto.	3 "	35	"	
" 2	Cotolene	57452	Nasmiths Ltd., 42 Du chess st., Toronto.	1½ "	nil	N. K. Fairbanks, Ltd., Montreal.	
" 3	Snowflake Shortening.	57453	Matthews Laing Co., Ltd. Toronto.	2 "	23	Vendor.	
" 3	Deb	57454	Geo. Weston Ltd., 420 Bathurst st., Toronto.	1½ "	23		W. G. Patrick Co., Toronto.
" 4	Lard, Compound.	57455	The Wm. Davies Co., Ltd., 562 Queen st., West, Toronto.	2 "	34	Vendors.....	
" 7	Lard, Compound.	57456	T. Chisholm, 298 Queen-st., East, Toronto.	1½ "	15		N. K. Fairbanks, Montreal.
" 7	Flex....	57457	W. J. Lloyd & Co., 520 Parliament st., Toronto	1½ "	25		W. G. Patrick, & Co., Toronto.
" 7	O. Shortening.	57458	H. C. Barker, 283 Spadina ave., Toronto.	1½ "	15		The Bowes Co., Ltd., Toronto.
" 8	Crisco.....	57459	Kennedy Bros., 975 Queen st., East, Toronto.	1 pkg.	30		Unknown....

DISTRICT OF HAMILTON—

July 8	Lard, Compound.	58801	A. C. Vasper, 37-38 Central market, Hamilton	1½ lb..	18	The Harris Abattoir Co., Toronto	
" 8	Lard, Compound.	58802	A. J. Lambert, 17 18 Central market, Hamilton.	1½ "	25	N. K. Fairbanks Co., Montreal.	
" 8	Shortening..	58803	O. W. Bessey, 31-32 Central market, Hamilton.	1½ "	25	Gunns Ltd., Toronto.	
" 8	Lard, Compound.	58804	Jos. A. Farmer, 53-54 Cen. market, Hamilton.	1½ "	27	Vendor.....	
" 8	Lard	58805	J. E. Church, 44 Mary st. Brantford.	1½ "	27	Fowlers Canadian Co., Hamilton.	
" 10	"	58806	Spencer Smith, Brant st., Burlington.	3 "	54	"	
" 10	Crisco.....	58807	W. Kerns & Co., Water, st., Burlington.	3 tins.	90	The Proctor Gamble Co., Cincinnati, Ohio.	
" 19	Lard....	58808	Henry & Glacken, Church St., St. Catharines.	1½ lb..	27	Moyer Bros., St. Catharines.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Batyro Refracto- meter Reading at 40°c.	Iodine Number (Hanus).	No. of Sample.	
H. J. DAGER, INSPECTOR.						
Purely Vegetable. . . .	p. c. Traces.		55.5		57445	True to name. Not sold as lard.
Maple Leaf Brand. Pure Lard.	"		51.5		57446	Genuine.
.....	"	Faint pink.	53	51.90	57447	"
.....	"	Crimson. . .	57.5		57448	Not sold as lard.
Weeson Snow Drift Oil. Choice winter pressed Cotton Seed Oil. Domestic.	"	"	58	122.9	57449	Cotton seed oil. True to name. Not sold as lard.
Refined Cotton Seed Oil. Beef Stearine.	"	"	58		57451	True to name. Not sold as lard.
.....	"	"	58		57452	" " " "
Snowflake.	"	"	55.5		57453	Not sold as lard.
.....	9.75		58	73.15	57454	Excess water. Adulterated, Con- tains traces of nickel. Ash = 1.55.
Peerless.	Traces.	Crimson. . .	57.5		57455	Sold as compound.
.....	1.33	"	57	94.74	57456	Excess of water. Adulterated.
Boars Head.	8.83		56.5	61.11	57457	Excess of water - traces of nickel Ash = 0.77. Adulterated.
.....	Traces.	Crimson. . .	57.5		57458	Not sold as lard.
Velvet, O.	"	"	55.5		57459	True to name. Not sold as lard.

D. M. CAMERON, INSPECTOR.

.....	Traces.	Crimson. . .	57	88.90	58801	Sold as compound.
.....	1.75	"	57		58802	Sold as compound. Excess of water Adulterated.
.....	Traces.	"	57		58803	Not sold as lard.
.....	"		50.5		58804	Sold as compound.
L. & S.	"		51		58805	Genuine.
Pure.	"		50.5		58806	"
.....	"		53		58807	True to name. Not sold as lard.
Pure.	"		51		58808	Genuine.

5 GEORGE V., A. 1915

BULLETIN No. 274

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
July 19	Lard	58809	Wilson's, 33 Queen st., St. Catharines.	3 lb.	51	F. W. Fearman Co., Ltd., Hamilton.	...
" 20	"	58810	L. McMann, Front st., Thorold.	3 pkgs	54	Swift Canadian Co., Ltd.	...
" 20	"	58811	L. A. Smith, Front st., Thorold.	1½ lb.	27	St. Thomas Packing Co., St. Thomas.	...
" 20	Shortening	58812	W. Diamond, Front st., Thorold.	1½ "	23	Gunn's, Ltd., Toronto.	...
Aug. 25	Lard	58813	Hood & Bennalack, Windham st., Guelph.	1½ "	30	Fowlers Canadian Co., Hamilton.	...
" 26	"	58814	J. M. Schneider, King st., Berlin.	1½ "	27	Vendor . . . . .	...
" 26	"	58815	W. J. McCutcheon, King st., Berlin.	1½ "	27	" . . . . .	...
" 26	"	58823	J. S. O'Neil, 57 Main st., Welland.	1½ "	30	Unknown . . . . .	...

DISTRICT OF WINDSOR—

June 23	Lard	54828	A. E. Rosenberger, London.	1½ lb.	27	Ingersoll Packing Co.	
" 23	"	54829	Alp. Johnson, London.	1½ "	27	Unknown	
" 23	"	54830	F. C. Toon, London . .	1½ "	23	Elliot Marr & Co., London.	
" 23	"	54831	Hoskin & Reynolds, London.	1½ "	25	Hammond Standish Co., Detroit.	
" 24	"	54832	St. Thomas Packing Co., London.	1 pail	48	St. Thomas Packing Co., St. Thomas.	
" 24	"	54833	Mrs. F. Boug, London, West.	1½ lb.	23	Jno. Duff & Son, Hamilton.	
" 24	"	54834	R. H. Wade, London, West.	1½ "	24	F. W. Fearman Co., Hamilton.	
" 24	"	54835	W. T. Mullens, London, West.	1½ "	33	Dom. Abattoir Co., London.	
" 24	"	54836	Taples Market, London .	2 pkgs	36	Fowlers Canadian Co., Hamilton.	
July 3	"	54837	Orendorf Bros., Ridgetown.	1½ lb.	30	Matthews-Laing, Ltd., Brantford.	
" 3	"	54839	J. Caron, Ridgetown . . .	1½ "	30	St. Thomas Packing Co., St. Thomas.	
" 3	"	54845	Jas. White, Ridgeton . .	1 tin.	40	"	
" 3	"	54844	Clark & Sons, Ridgeton.	1½ "	37	Matthews-Laing, Co., Brantford.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto- meter Reading at 40° C.	Iodine Number (Hanus).		

Concluded.

	p.c.					
Pure	Traces.		50.5		58809	Genuine.
"	"		51.5		58810	"
"	"		51.5		58811	"
Easifirst	"	Crimson....	57		58812	Not sold as lard.
"	"		51		58813	Genuine.
"	1.47		50		58814	Excess water. Adulterated.
"	Traces..		51		58815	Genuine.
"	"		50.5		58823	"

JNO. TALBOT, INSPECTOR.

Beaver Brand Pure Lard	Traces..		52		54828	Genuine.
"	"	Crimson....	51.5	65.21	54829	Doubtful. See p. 2.
Silver Star Pure Lard...	"		52		54830	Genuine.
Silver Star Lard, Guar- anteed pure.....	"		51		54831	"
Elgin Brand Pure Lard..	"		51		54832	"
"	"					"
Horse Shoe Brand Pure Lard.	"		51.5		54833	"
Star Brand Pure Lard...	"		52		54834	"
National Pure Lard.....	"		50		54835	"
L. & S. Brand Choice Pure Lard.	"	Faint pink..	50	60.04	54836	"
Pur lard ...	"		51.5		54837	"
Elgin Brand Pure Lard.	"		52		54839	"
"	"		51.5		54840	"
Matthew's Leaf Lard. ...	"		50.5		54844	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of vendor.	Cost.		Name and Address of Manufacturer or furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1913.							
June 19	Lard	48870	A. J. Kemball, Main st. N., Winnipeg.	2½ lbs.	55	Swift's Canadian Co., Winnipeg.	
" 19	"	48871	Jas. Enright, Main and Jarvis, Winnipeg.	2½ "	55	Western Packing Co., Ltd., Winnipeg.	
" 19	"	48872	J. B. Coyle, Main st. N., Winnipeg.	2½ "	60	Swift's Canadian Co., Ltd., Winnipeg.	
" 19	"	48873	H. A. Paul, Main st. N., Winnipeg.	2½ "	55	"	
" 19	Crisco	48874	J. A. McDowell, Sherbrooke st., Winnipeg.	1½ "	30	The Procter, Gamble Co., Cincinnati, O.	
" 20	Lard	48875	J. A. McDowell, Sherbrooke st., Winnipeg.	2½ "	55	Western Packing Co., Ltd., Winnipeg.	
" 20	Crisco	48876	Dungan & Hunter, Logan ave., Winnipeg.	1½ "	30	The Procter & Gamble Co., Cincinnati, O.	
" 20	"	48877	Patterson Grocer, Elmwood, P. O., Winnipeg.	1½ "	30	"	
" 20	"	48878	Gallagher Bros., Elmwood, P. O., Winnipeg.	1½ "	30	"	
" 20	Lard	48879	"	2½ "	55	Swift's Canadian Co., Ltd., Winnipeg.	
July 4	"	48880	Portage Prov. Store, Portage ave., Winnipeg.	1 pail.	55	Gordon, Ironsides, Fares Co., Winnipeg.	
" 4	"	48881	Western Cash Store, Portage ave., Winnipeg.	1 "	55	"	
" 14	"	48882	T. A. Newman & Bros., Portage La Prairie.	1 "	60	"	
" 15	"	48883	Ed. Bolton, Brandon.	1 "	60	Swift's Canadian Co., Winnipeg.	
" 15	"	48884	Greenstone Grocery, Brandon.	1 "	60	The Cudahy Packing Co.	The Codville Co. Brandon.

DISTRICT OF ROCKY MOUNTAINS—

July 2	Lard	49912	L. C. Masson, Revelstoke, B.C.	1 pail.	65	P. Burns Co., Calgary.	
" 2	"	49913	"	1 "	63	Swift's Canadian Co., Edmonton.	
" 2	Lard, Compound.	49914	"	1 "	55	"	
" 16	Lard	49930	H. T. Bilkey, Rossland, B.C.	1 "	75	"	
" 16	"	49931	"	1 "	75	Armour & Co., Chicago.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		

A. C. LARIVIÈRE, INSPECTOR.

	p. c.					
.....	Traces.	Faint pink..	50.5	63.76	48870	Genuine.
.....			51.5		48871	"
.....	"		52		48872	"
.....	"	Light pink..	52	62.73	48873	"
.....	"		55.5	74.89	48874	True to name. Not sold as lard.
.....	6.27		51		48875	Genuine.
.....	Traces.		55.5		48876	True to name. Not sold as lard
.....	"		55.5		48877	" "
.....	"	Pink....	54.5	79.37	48878	" "
.....	"		51		48879	Genuine.
.....	"		51.5		48880	"
.....	"		52		48881	"
.....	"		53		48882	"
.....	0.19		52		48883	"
"Rex" Pure Lard	0.19		52		48884	"

THOS. PARKER, INSPECTOR.

Shamrock	Traces	Light pink..	51	63.37	49912	Genuine.
Silver Leaf.....	"	Faint pink..	51.5	63.97	49913	"
Pure Lard with 35 p.c. Beef Fat.	"		50.5		49914	Sold as compound.
Silver Leaf.....	"	Faint pink..	51.5	59.60	49930	Genuine.
Shield	"		52		49931	"

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1913.							
July 16	Lard.....	49934	Hunter Bros., Rossland, B.C.	1 pail.	100	E. H. Stanton Co., Spokane, Wash.	
" 16	Crisco	49935	" "	1 tin.	40	Proctor-Gamble Co., Cincinnati, Ohio.	
" 28	Lard Com-pound.	49936	A. J. Shirley, Rossland, B.C.	1½ lb..	25	Swift's Canadian Co., Edmonton.	
" 28	Lard.....	49937	P. Burns & Co., Nelson, B.C.	1 pail.	60	P. Burns & Co., Calgary.	
" 28	Lard Com-pound	49938	" "	1 "	45	"	
" 28	"	49939	G. G. Peters, Nelson, B.C.	1 "	70	Swift's Canadian Co., Edmonton.	
" 28	Lard.....	49941	Star Grocery, Nelson, B.C.	1 "	70	Armour & Co., Chicago.	

DISTRICT OF VANCOUVER—

Aug. 19	Lard Com-pound.	54946	Western Grocery Co., Main St., Vancouver, B.C.	1½ lb..	20	P. Burns & Co., Vancouver.	
" 19	Lard.....	54947	J. S. Kelly, 2333 Main st., Vancouver, B.C.	1½ "	30	"	
" 19	Lard Com-pound.	54948	Vancouver-Prince Rupert Meat Co., Mt. Pleasant Branch, Vancouver, B.C.	1½ "	20	Vendors.....	
" 19	Lard.....	54949	K. & M. Grocery, 2505 Main st., Vancouver, B.C.	1½ "	30	P. Burns & Co., Vancouver.	
" 20	"	54950	Vancouver-Prince Rupert Meat Co., 608 Granville st., Vancouver, B.C.	1½ "	25	Vendors.....	
" 20	Compound ...	54951	Slater Bros., 856 Granville st., Vancouver, B.C.	1½ "	20	P. Burns & Co., Vancouver.	
" 21	"	54952	Kamloops-Vancouver Meat Co., Powell and Main sts., Vancouver, B.C.	1½ "	25	Vendors.....	
Sept. 3	"	54953	David Spencer, Ltd., Vancouver.	3 "	40	Swift's Canadian Co., Winnipeg.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Batyro Refracto- meter Reading at 40° C.	Iodine Number (Hanus).		

Concluded.

	p.c.					
	Traces.		50.5		49934	Genuine.
	"		55		49935	True to name. Not sold as lard.
Jewel.....	"	Crimson...	55		49936	Sold as compound.
Shamrock.....	"	Red.....	51.5	64.76	49937	Doubtful. See p. 2.
White Carnation.....	"	Crimson...	54.5		49938	Sold as compound.
Jewel.....	"	"	55.5		49939	" "
Simon Pure	"		51.5		49941	Genuine.

J. F. POWER, INSPECTOR.

Caruatiou Brand.....	Traces	Crimson....	55		54946	Sold as compound.
Shamrock Brand Pure Lard.....	"	Pink.....	52	63.26	54947	Genuine.
Oak Leaf Brand.....	"	Crimson....	54.5		54948	Sold as compound.
Shamrock.....	"		51		54949	Genuine.
White Lily Brand Pure Lard.....	"		51		54950	"
	"	Crimson....	54		54951	Sold as compound.
	"		50.5		54952	" "
	"	Crimson....	54		54953	" "

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BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VICTORIA—							
1913.							
July 18	Lard Substitutes.	57612	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	2 lbs..	45	Frye Bruhn Inc., Seattle, Wash.	
" 18	Cotosuet.	57613	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	5 "	75	Swifts Canadian Co., Winnipeg.	
" 18	Crisco.....	57615	Copas & Young, 633 Fort st., Victoria, B.C.	1½ "	35		
" 18	Lard Com-pound.	57618	Vanc. Prince Rupert Meat Co., 1423 Douglas st., Victoria, B.C.	1½ "	20	Vendors	
" 18	Lard Com-pound.	57619	Vanc. Prince Rupert Meat Co., Ltd., 586 Johnson st., Victoria, B.C.	3 "	50	"	
" 21	Lard Com-pound.	57620	H. O. Kirkham & Co., 741 Fort st., Victoria, B.C.	1½ "	20	"	
" 21	Crisco.....	57621	H. O. Kirkham & Co., 741 Fort st., Victoria, B.C.	1½ "	35	The Proctor Gamble Co., Cincinnati, O.	
" 21	Lard Com-pound.	57624	P. Burns & Co., Ltd., 902 Fort st., Victoria, B.C.	3 "	45	Vendors.	
" 21	Lard Com-pound.	57625	P. Burns & Co., Ltd., 902 Govt. st., Victoria, B.C.	1½ "	25	P. Burns & Co., Vancouver, B.C.	
" 22	Lard Com-pound.	57626	Dom. Market, Oak Bay Junction, Victoria, B.C.	3 "	20	Swifts Canadian Co., Ltd., Winnipeg.	
" 22	Lard Com-pound.	57627	Fernwood Market, 1308 Gladstone st., Victoria, B.C.	2 "	20	Swifts Canadian Co., Ltd., Winnipeg.	
" 22	Lard Com-pound.	57628	Vanc. Prince Rupert Meat Co., Ltd., 1056 Pandora ave., Victoria, B.C.	3 "	45	Vendors at Vancouver.	
" 22	Lard Com-pound.	57629	Jolly's Store, Cook & Pandora ave., Victoria, B.C.	1½ "	25	P. Burns & Co., Ltd. Vancouver, B.C.	
" 22	Lard Com-pound.	57630	Dom. Market Co., 1307 Gladstone ave., Victoria, B.C.	1½ "	45	Swifts Canadian Co., Ltd., Winnipeg.	
" 22	Lard Com-pound.	57631	P. Burns & Co., Ltd., 2009 Fernwood road, Victoria, B.C.	1½ "	25	P. Burns & Co., Ltd., Vancouver	

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LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Buero Refracto meter Reading at 40° c.	Iodine Number (Hanus).		
Contains Refined Cotton, Seed Oil and Beef Fat.	Traces.	Crimson.	55.5	.....	57612	Sold as compound.
Contains Refined Cotton, Seed Oil and Stearine..	"	"	54.5	.....	57613	True to name. Not sold as Lard.
.....	"	"	54.5	.....	57615	" " " "
Oak Leaf Lard, Beef Fat and Cotton Seed Oil.	"	Crimson	53.5	.....	57618	Sold as compound.
Oak Leaf Lard, Com- pound.	"	"	53.5	.....	57619	" "
Dripping.....	"	"	48	.....	57620	" "
Purely Vegetable....	"	"	54.5	.....	57621	True to name. Not sold as Lard.
White Carnation.....	"	Crimson	55.5	.....	57624	Sold as compound.
" "	"	"	55	.....	57625	" "
.....	"	"	55	.....	57626	" "
Swifts Jewel	"	"	55	.....	57627	" "
Oak Leaf, Lard Com- pound.	"	"	53	.....	57628	" "
White Carnation.....	"	"	54	.....	57629	" "
Swifts Jewel, Compound Lard.	0.11	Red....	55	.....	57630	" "
.....	Traces.	Crimson	55	.....	57631	" "

APPENDIX R.

BULLETIN No. 275—TOMATO KETCHUP (CATCHUP, CATSUP).

OTTAWA, February 12, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report on 70 samples purchased by our inspectors as Ketchup or Catsup in September and October last.

Sixty-seven of these samples represent Tomato Ketchup. This article has been made the subject of study in these laboratories as follows:—

Bulletin 83—December, 1902—26 samples reported.

"	129—	"	1906—49	"	"
"	224—May,		1911—75	"	"

In 1902, preservatives (salicylic or benzoic acid) were found in 65 per cent of the collection.

In 1906, 57 per cent of the collection contained preservatives.

In 1911, 68 per cent contained preservatives, chiefly benzoic acid.

The present collection shows 74 per cent of the collection to contain preservatives; in every case the preservative is benzoic acid, showing that benzoate of soda has completely displaced salicylic acid as a preservative of Ketchup.

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It is evident that manufacturers of Tomato Ketchup are impressed with the necessity of adding a preservative, either to the finished article, or to the stock from which this is made.

We have not, as yet, forbidden the use of benzoate of soda in foods, as the evidence of its use in minimum amounts necessary to prevent spoilage is not convincing as to its harmfulness to health.

A careful study of this matter was made by the Referee Board of the United States Department of Agriculture in 1909, and Food Inspection Decision No. 104 (March 3), 1909) declares:—

‘It having been determined that benzoate of soda mixed with food is not deleterious or poisonous and is not injurious to health, no objection will be raised under the Foods and Drugs Act to the use in food of benzoate of soda, provided that each container or package of such food is plainly labelled to show the presence and amount of benzoate of soda.’

Several state laws, however, forbid its employment in foods.

The fact that 17 samples of this collection of Ketchup contain no preservative, and are nevertheless found to be in sound condition, would argue that Ketchup may be manufactured and marketed without a preservative; a conclusion which is in accord with a careful study of the matter made by A. W. Bitting, Inspector, Bureau of Chemistry, Washington, in 1907, and published as Bulletin No. 119. Mr. Bitting’s conclusions are summed up as follows: ‘The experiments . . . were conducted under factory conditions, and upon a commercial scale. The results prove that such a Ketchup can be made and delivered to the consumer in perfect condition; the product in question having already stood ten months unopened, without showing the slightest indication of spoilage.’ It was also proved that after opening, the article could be kept at a temperature of 67° for eight days, without any development of moulds.

Since Ketchup is valued rather as a condiment than as a food, it may be unfair to place too much importance upon the amount of solid matter contained in it. At the same time it is difficult to believe that the extremely low solids in some of these samples does not constitute inferiority. It is certain that most of the brands recognized by the trade as of first excellence, are characterized by a relatively high content in solids.

The samples now reported show solids as below:—

Above 30 per cent in 11 samples.			
“ 25	“	3	“
“ 20	“	11	“
“ 15	“	14	“
“ 10	“	24	“
Below 10	“	4	“

It will be seen that 60 per cent of these samples contain practically from 15 to 30 per cent of solids

It has been sufficiently proven that a Ketchup made from ripe and fresh tomatoes, shows a good colour without any addition of a dye. Dyes are absent in 42 samples of this collection (62 per cent) and these samples are for the most part of very satisfactory

colour. The late Chief Analyst, Mr. T. MacFarlane, wrote as follows in 1906 (Bulletin 129, page 3) 'I have inclined to the opinion that those samples in the manufacture of which a dye has been used are adulterated according to the Act. This judgment would not be based upon the injurious nature of the dye but because its use is prohibited by the Adulteration Act, Sec. 3 (h) of the latter provides that food shall be deemed to be adulterated, within the meaning of this Act, if it is so coloured or coated or polished or powdered that damage is concealed, or if it is made to appear better, or of greater value than it really is. According to information obtained from manufacturers, the use of a dye is unnecessary when the Catsup is made from fresh tomatoes. It is when the fruit is out of season, and the pulp has to be kept in stock for a considerable time that the colour suffers, and the use of a dye becomes necessary. In such case it might be reasonably inferred that they have been coloured to conceal damage, or that the dye has been used to make the article appear of greater value than it really is, and consequently that the word adulterated should be applied.'

I am inclined to hold that the above ruling is correct, in the main; but in the absence of direct evidence of the inferior character of the stock used, I think it scarcely justifiable to assert that such stock must necessarily have been of inferior quality because of the presence of a dye in the finished product.

Tomato Ketchup should be prepared only from sound, fresh and ripe tomatoes. There is too much reason to believe that some makers of the article have, at times used fruit which could not find a market except under a disguise; employing antiseptics to arrest decay, and dyes to give a desirable colour. This conclusion is justified by such facts as, that the federal government of the United States obtained judgments against nineteen interstate shipments of Ketchup between May, 1912, and March, 1913, on the ground that these consisted in part of a decomposed and putrid vegetable substance. All these samples contained benzoate of soda, and it goes without saying that this preservative had been added to an already decomposed or decayed material in order to arrest further decay.

Decomposition and putridity in vegetable material of the kind in question is indicated, (1) by the percentage of microscopic fields which show mould filaments, (2) by the number of yeasts and spores found in $\frac{1}{60}$ of a cubic millimeter, (3) by the number of bacteria found in 1 cubic centimeter.

It has been shown conclusively (Circular No. 68, Bureau of Chemistry, Washington) that under good factory conditions, the maximum percentage of fields showing moulds need never exceed 25; that the number of yeasts and spores in $\frac{1}{60}$ cubic millimeter need never exceed 25; and that the number of bacteria per cubic centimeter need never exceed 25,000,000. The maxima quoted are very liberal, and it will be seen by a study of this report that very few of the samples examined show numbers approaching them. All the nineteen samples condemned by United States Courts, and referred to above, gave numbers greatly in excess of these, moulds being found in 32 to 84 per cent of the fields examined; yeasts and spores varying from 65 to 225 per $\frac{1}{60}$ cubic millimeter, and bacteria per cubic centimeter running from 60,000,000 to 480,000,000.

None of the samples herein reported give such results as would justify their being condemned; but great variation exists among them; and the careful reader will find much to think about, if he studies the appended tables closely.

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The matter of fixing exact standards by which to judge commercial Ketchups will be considered in the light of this and previous reports.

I beg to recommend its publication as Bulletin No. 275.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 275—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Oct. 13.	Catsup.....	54306	Yexas, Yarmouth, N.S.	3bots.	30	Wm. Davies Co., Toronto, Ont.	Manufacturers..
" 23	"	54307	E. W. Crease & Son, Halifax, N.S.	3 "	75	Crosse & Blackwell, London, Eng.	" ..
" 23	"	54308	Jas. Scott & Co., Halifax, N.S.	3 "	90	" ..	" ..
" 23	"	54309	A. L. Doyle & Co., Halifax, N.S.	3 "	30	Canadian Cannery, Hamilton, Ont.	Payzant & King, Halifax, N.S.
" 23	"	54310	Wm. Moore, Halifax, N.S.	3 "	25	Gorman & Eckert Co., London, Ont.	Manufacturers..

DISTRICT OF NEW-BRUNSWICK—

Sept. 22	Catsup.....	50347	H. W. Cole, Ltd., John, N.B.	3 bots.	44	Libby, McNeill & Libby, Chicago.	.....
" 25	"	50348	Q. Barkers, Ltd., John, N.B.	3 "	30	The Wm. Davies Co., Ltd., Toronto, Ont.	.....
Oct. 8	"	50349	G. A. Irving Estate, Stephen, N.B.	3 "	30	The Lea's Ltd., Simcoe, Ont.	.....
" 16	"	50350	E. A. Burden, Woodstock, N.B.	3 "	45	Gorman, Eckert Co., Ltd., London, Ont.	.....
" 22	"	50351	Mme P. White, Moncton, N.B.	3 "	36	The Aylmer Canning, Aylmer, Ont.	.....

DISTRICT OF QUEBEC—

Sept. 23	Catsup.....	56129	G. Pepin, 132 rue Massue, Quebec.	3 bots.	75	Heinz Co., Pittsburgh, U.S.	J. B. Reneaud..
" 23	"	56130	"	3 "	30	T. A. Lytle Co., Toronto.	Turcotte & Frère
" 24	"	56131	O. Bacon, 28 rue Hermine, Quebec.	3 "	45	" ..	Langlois & Paradis.
" 24	"	56132	"	3 "	30	Heinz Co., Pittsburgh, U.S.	" ..
" 24	"	56133	"	3 "	45	T. A. Lytle Co., Toronto.	J. B. Reneaud & Cie.

DISTRICT OF THREE-RIVERS—

Sept. 17	Catsup.....	59711	P. A. Guilbeault, St. Norbert.	3 bots.	30	Quebec Preserving Co.	Chevalier & Pouliat, Joliette.
" 18	"	59712	J. O. Daviau, Berthier ville.	3 "	45	T. A. Lytle Co., Toronto.	.....

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief analyst.
	Total Solids.	Preservatives.	Coal tar Dyes.	Micro-chemical Examination.					
				Percentage of mi- croscopic fields examined show- ing molds	Yeasts and spores per c.c. mm.	Bacteria per cc.			

R. J. WAUGH, INSPECTOR.

	p. c.								
Tomato.....	11.60	Ben-zoic acid.	Pre-sent.	6	6	12,000,000		54306	
Mushroom.....	12.74	None.	None.				Mushroom...	54307	Mushroom.
Walnut.....	22.96	"	"				Walut	54308	Walnut
Tomato.....	9.00	Ben-zoic acid	Pre-sent.	5	18	10,800,000		54309	
"	14.82	"	None.	Traces.	20	7,200,000		54310	

J. C. FERGUSON, INSPECTOR.

	19.30	None.	None.	Traces.	4	4,800,000		50347	
	10.50	Ben-zoic acid.	Pre-sent.	"	14	4,800,000		50348	
Tomato.....	26.34	"	None.	"	39	12,000,000		50349	Yeast and spore too many.
" (Rex)....	15.20	"	"	"	8	9,600,000		50350	
Canada First....	13.60	"	Pre-sent.	10	8	12,000,000		50351	

F. X. W. E. BELAND, INSPECTOR.

	31.30	None.	None.	Traces.	18	18,800,000		56129	
	18.47	Ben-zoic acid.	Pre-sent.	10	12	16,800,000		56130	
	16.46	"	None.	Traces.	4	4,800,000		56131	
	26.12	"	"	"	8	4,800,000		56132	
	31.18	None.	"	"	16	24,000,000		56133	

DR. V. P. LAVALLE, INSPECTOR.

	12.14	Ben-zoic acid.	Pre-sent.	25	28	9,600,000		59711	
	21.30	"	None.	Traces.	6	24,000,000		59712	

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BULLETIN No. 275—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer and Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher

DISTRICT OF THREE RIVERS—

1913.							
Sept. 18	Catsup.....	59713	A. L. Caisse, Berthierville.	3 bots.	36	Upton Co., Hamilton, Ont.	
" 19	"	59714	O. Paquette, Berthierville.	3 "	75	Heinz Co., Leamington, Ont.	
" 19	"	59715	J. A. Laporte, Berthierville.	3 "	75	"	

DISTRICT OF EASTERN TOWNSHIPS—

Sept. 29	Catsup.....	1712	F. Maken & Fils, Arthabaskaville.	3 bots.	45	.....	Quebec Preserving Co., Que.
" 30	"	1713	F. W. Gibson, Danville.	3 "	75	H. J. Heinz Co., Leamington, Ont.	
" 30	"	1714	A. J. Hudon, Richmond.	3 "	45	Grantham Canning Co., St. Catharines, Ont.	L. Chaput fils et Cie, Montreal.
Oct. 9	"	1715	O. Bienvenue, Granby...	3 "	45	Canadian Cannery Consolidated Co., Ltd., Hamilton.	
" 10	"	1716	N. Hamel, Magog	3 "	36	Aylmer Canning Co., Aylmer, Ont.	

DISTRICT OF MONTREAL—

Oct. 21	Catsup.....	58611	F. Dunoche, 244 Church ave., Verdun.	3 bots.	36	Burlington Canning Co., Hamilton, Ont.	
" 21	"	58612	Jos. Bonenfant, 428 Church ave., Verdun.	3 "	45	H. J. Heinz Co.,	
" 21	"	58613	P. Brunet, 418 Church ave., Verdun.	8 "	36	H. Bourque et Fils, Montreal.	
" 21	"	58614	P. LaJoie, 514 Church ave., Verdun.	3 "	36	The Upton Co., Hamilton, Ont.	
" 21	"	58615	L. LeBlanc, 143 Church ave., Verdun.	3 "	75	E. D. Smith, Windsor, Ont.	

DISTRICT OF OTTAWA—

Sept. 17	Catsup.....	59186	N. Dean & Son, Renfrew, Ont.	3 bots.	75	Gorman, Eckert & Co., Ltd., London, Ont.	
" 20	"	59187	Alex. Sibbitt, Carleton Place.	3 "	30	The T. Upton Co., Hamilton, Ont.	S. J. Major, Ltd., Ottawa.

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CATSUP.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Preservatives.	Coal Tar Dyes.	Micro-Chemical Examination.					
				Percentage of mi- croscopic fields examined show- ing molds.	Yeast and spores per 600. mm.	Bacteria per cc.			

Concluded.

	p.c.								
.....	19.90	None.	None.	Traces.	12	17,200,000	.....	59713	
.....	32.10	"	"	10	14	16,000,000	.....	59714	
.....	31.24	"	"	Traces.	16	18,600,000	.....	59715	

J. C. ROULEAU, INSPECTOR.

.....	7.96	Ben- zoic Acid.	Pre- sent	25	20	16,800,000	.....	1712	
Factory 16.....	32.64	None.	None.	6	14	24,000,000	.....	1713	
.....	10.26	Ben- zoic Acid.	Pre- sent	50	64	9,600,000	Excess of moulds. Yeas- ts and spores probably made from putrified fruit	1714	Moulds, yeasts and spores too many.
.....	12.30	"	None.	10	8	2,400,000	.....	1715	
.....	15.90	"	Pre- sent	30	10	9,600,000	Excess of moulds.	1716	

D. J. KEARNEY, INSPECTOR.

.....	15.32	Ben- zoic Acid	None	15	35	9,600,000	Excess of yeasts and spores.	58611	Yeast & spores rather too high.
.....	32.70	None.	"	Traces.	12	19,200,000	.....	58612	
.....	11.60	Ben- zoic Acid.	"	10	10	7,200,000	.....	58613	
.....	18.30	None.	"	10	16	14,400,000	.....	58614	
.....	29.10	Ben- zoic Acid.	Pre- sent	10	4	2,400,000	.....	58615	

J. A. RICKEY, INSPECTOR.

Tomato	12.30	Ben- zoic Acid	None.	Traces.	14	10,200,000	.....	59186	
"	19.50	None.	"	"	12	7,200,000	.....	59187	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1913.							
Sept. 30	Catsup.	59188	McDonald Bros., Gladstone ave., Ottawa.	3 bots.	30	T. A. Lytle Co., Ltd., Toronto.	F. J. Castle Co., Ottawa.
" 30	"	59189	M. Greenburg, Bank st., Ottawa.	3 "	30	Quebec Preserving Co.	Dover, Ottawa.
Oct. 1	"	59190	J. H. Bradley, Prescott . .	3 "	45	Standard Canning Co., Hamilton, Ont.	Lumsden Bros., Hamilton.

DISTRICT OF KINGSTON—

Sept. 22	Catsup.	60011	Thompson Bros., Belleville.	3 bots.	75	Heinz	
" 23	"	60012	M. C. Nichols, Cobourg . .	3 "	45	Canada Preserving Co., Hamilton.	
" 22	"	60013	Geo. Boyle, Belleville . . .	3 "	30	Davies, Toronto . .	
" 23	"	60014	W. P. Platt, Cobourg . . .	3 "	35	Standard Canning Co., Hamilton.	
" 24	"	60015	P. S. White, Peterboro . .	3 "	35	Gorinan, Eckert & Co., London, Ont.	

DISTRICT OF TORONTO—

Sept. 19	Catsup.	57489	M. R. Yost & Son, 84 Dundas st., Toronto.	3 bots.	20	Vendors	
" 19	"	57490	The Wm. Davies Co., Ltd., 300 Queen st. East, Toronto.	3 "	45	"	
" 22	"	57491	Bishop & Son, 1039 Gerard st., East, Toronto.	3 "	30	C. Gildner & Co., Toronto.	
" 22	"	57492	F. W. Newell, 250 Greenwood ave., Toronto.	3 "	30	Aylmer Canning Co., Aylmer, Ont.	
" 22	"	57493	The T. A. Lytle Co., Ltd., Sterling road, Toronto.	3 "	37	Vendors	

DISTRICT OF HAMILTON—

Sept. 29	Catsup.	50895	George Hareling, 227 King st. East, Hamilton.	3 bots.	30	London Canning Co.	
29	"	50896	Young Bros., 241 King st. East, Hamilton.	3 "	30	W. Sommerville Co.	

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Preservatives.	Coal Tar Dyes.	Micro-chemical Examination.					
				Percentage of mi- croscopic fields examined show- ing molds.	Yeasts and spores per c.c. mm.	Bacteria per cc.			

Concluded.

	p.c.								
Tomato, Guaranteed free from Artificial Colouring.	22.48	Benz-zoic Acid.	None.	10	24	4,800,000	.....	59188	
Tomato.	6.56	"	Pre-sent	25	36	19,200,000	Excess of yeasts and spores.	59189	Yeasts & spores too high.
" Old Church	13.02	"	"	25	41	19,200,000	" "	59190	" "

JAS. HOGAN, INSPECTOR.

.....	31.40	None.	None.	5	16	9,600,000	.....	60011	
.....	16.70	Benz-zoic Acid.	"	Traces ..	4	4,800,000	.....	60012	
.....	14.04	"	Pre-sent	" ..	4	4,800,000	.....	60013	
.....	12.56	"	"	10	24	4,800,000	.....	60014	
.....	15.14	"	None.	Traces ..	14	4,800,000	.....	60015	

H. J. DAGER, INSPECTOR.

Yost Brand....	14.87	Benz-zoic Acid.	Pre-sent.	Traces ..	2	A few ..	.....	57489	
Davies.....	12.46	"	"	"	16	2,400,000	.....	57490	
Gildner's Standard Brand.	13.70	"	"	"	20	2,400,000	.....	57491	
Canada First....	12.04	"	"	"	4	A few ..	.....	57492	
Sterling	29.92	"	None.	None. ..	20	14,400,000	.....	57493	

J. J. COSTIGAN, ACTING INSPECTOR.

Peacock Brand....	9.82	Benz-zoic Acid.	Pre-sent.	Traces ..	22	16,000,000	.....	50895	
Sweet Clover	12.84	"	None.	35	12	12,000,000	Excess of molds.	50896	Excess of molds.

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BULLETIN No. 275—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Sept. 29	Catsup..	50897	G. Lees, 201 King st., East, Hamilton.	3 bots.	30	National Cannery, Ltd.	
" 29	"	50898	A. V. Brown, 241 James st., North, Hamilton.	3 "	45	Aylmer Canning Co.	
" 29	"	50899	" "	3 "	45	H. J. Heinz Co.	
DISTRICT OF WINDSOR—							
Oct. 8	Catsup..	54407	Fred Scarsbrook, Petrolia	3 bots.	30		
" 9	"	54430	A. H. Gammon & Son, Sarnia.	3 "	45	Aylmer Canning Co., Aylmer, Ont	
" 9	"	54432	Heinz Co., Leamington	3 "	45	Vendors.	
" 10	"	54436	Gill Bros., Strathroy	3 "	30	Gorman Eckert Co., London, Ont	
" 10	"	54440	Wm. Cross, Strathroy	3 "	45	Lea's Ltd., Simcoe, Ont.	
DISTRICT OF MANITOBA—							
Oct. 1	Catsup..	48971	F. Abbott, Kildonan West	3 bots.	75	Upton & Co., Hamilton.	The Codville Co., Winnipeg.
" 7	"	48972	Green & Co., Kildonan West.	3 "	45	Aylmer Canning Co., Aylmer, Ont	Campbell Bros. & Wilson, Winnipeg.
" 7	"	48973	Stanley's, 1623 Logan ave., West, Winnipeg.	3 "	45	" "	
" 7	"	48974	" "	3 "	75	Heinz, Leamington, Ont.	
7 7	"	48975	J. B. Bell, Logan ave., West, Winnipeg.	3 "	30	Gorman, Eckert Co., London, Ont	Mason & Hickey, Winnipeg.
DISTRICT OF ROCKY MOUNTAINS—							
Oct. 2	Catsup..	49949	Bell Trading Co., Nelson, B.C.	3 bots.	60	Curtice Bros., Rochester, N.Y.	
" 2	"	49950	" "	3 "	45	Imperial Spice Co., Hamilton.	
" 17	"	49984	Trites Wood Co., Fernie, B.C.	3 "	75	Kelowna Canning Co., Kelowna, B.C.	

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.					Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Preservatives.	Coal Tar Dyes.	Micro chemical Examination.				
				Percentage of mi- croscopic fields examined show- ing molds.	Yeasts and spores per $\frac{1}{2}$ c. mm.				Bacteria per cc.

Concluded.

	p. c.								
.....	21.40	Ben- zoic Acid.	Pre- sent.	25	28	21,600,000	.....	50897	
.....	18.32	"	None.	Traces..	2	2,400,000	.....	50898	
.....	32.12	None	"	5	14	9,600,000	.....	50899	

JNO. TALBOT, INSPECTOR.

Rex Brand.	15.00	Ben- zoic Acid.	None.	Traces..	10	11,200,000	.....	54407	
Canada First.....	14.24	"	"	15	8	9,600,000	.....	54430	
Heinz Tomato ...	31.50	None	"	Traces..	12	26,000,000	.....	54432	
Rex Brand. Guar- anteed Pure.	12.80	Ben- zoic Acid.	"	"	22	A few	.....	54436	
Lea's Quality Tom- ato.	23.76	"	"	"	8	9,600,000	.....	54440	

A. C. LARIVIÈRE, INSPECTOR.

Tomato.....	20.30	None.	None.	Traces..	18	20,800,000	.....	48971	
"	21.10	Ben- zoic Acid.	Pre- sent.	10	8	A few	.....	48972	
"	20.78	"	"	20	6	"	.....	48973	
Factory No. 16....	31.42	None.	None.	5	12	4,800,000	.....	48974	
Tomato.	13.20	Ben- zoic Acid.	"	Traces..	8	7,200,000	.....	48975	

THOS. PARKER, INSPECTOR.

Blue Label.....	22.52	Ben- zoic Acid.	None.	Traces..	8	24,000,000	.....	49949	
Champion	12.18	"	Pre- sent.	20	28	14,400,000	.....	49950	
Blue Funnell.....	11.62	"	None.	Traces..	98	12,000,000	Mostly yeast cells probably made from fer- mented fruit.	49984	Yeast and spores too high.

5 GEORGE V., A. 1915
BULLETIN No. 275—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1913.							
Oct. 17	Catsup.....	49985	Trites Wood Co., Fernie, B.C.	3 bots.	75	Aylmer Canning Co., Aylmer, Ont.	.....
" 17	"	49986	"	3 "	75	Taylor & Pringle Co., Owen Sound	.....

DISTRICT OF VICTORIA—

Oct. 29	Catsup	57674	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	3 bots.	75	W. K. Houston & Co., Victoria, B.C.	.....
" 29	"	57678	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3 "	1.05	Crosse & Blackwell, London, Eng.	.....
" 29	"	57682	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	3 "	90	H. J. Heinz & Co., Pittsburgh, U.S.	.....
" 29	"	57687	James Adam, Cook and Mears Sts., Victoria, B.C.	3 "	90	Curtice Bros. Co., Rochester, U.S.	.....
Nov. 5	"	57690	H. O. Kirkham, 714 Fort St., Victoria, B.C.	3 "	90	The T. A. Snider Preserve Co., Cincinnati.	.....

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Soluble.	Preservatives.	Coal Tar Dyes.	Micro chemical Examination.					
				Percentage of mi- croscopic fields examined show- ing molds.	Yeasts and spores per $\frac{1}{4}$ c. mm.	Bacteria per cc.			

Concluded.

	p. c.								
Canada First.	16.30	Ben- zoic Acid.	Pre- sent.	Traces..	12	7,200,000	.....	49985	
T. & P.	10.70	"	"	25	24	7,200,000	.....	49986	

D. O'SULLIVAN, INSPECTOR.

Queen City, Tomato.	14.04	Ben- zoic Acid.	None.	Traces..	12	9,600,000	.....	57674	
Mushroom.	14.04	None.	"	.....			.....	57678	Mushroom.
Heinz Tomato....	32.52	"	"	Traces..	8	6,000,000	.....	57682	
Blue Label Tomato	23.00	Ben- zoic Acid.	"	15	18	16,000,000	.....	57687	
Snider's Tomato .	21.40	None.	"	Traces..	6	4,500,000	.....	57690	

APPENDIX S.

BULLETIN No. 276—ICE CREAM.

OTTAWA, February 14, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report upon Ice Cream.

One hundred and thirty six samples of the article were purchased by our inspectors, in September, October and November of last year and one sample in March of the present year.

The following is a synopsis of the results of analysis :—

Samples found genuine.....	77
“ “ adulterated.....	49
“ “ but slightly below required standard.....	8
“ lost.....	2
Sold as imitation.....	1
Total.....	137

Our standards for Ice Cream, published in November 1910 (G. 934) require 14 per cent of milk fat in ordinary Ice Cream, and 12 per cent milk fat in the article when fruit or nuts are present.

Samples which show less than one per cent shortage in butter fat, I have not declared to be adulterated, but have indicated as slightly below the required standard. Our last inspection of Ice Cream was made in September and October of 1910; and the report was published as Bulletin No. 218.

I beg to recommend publication of this report as Bulletin No. 276.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 276—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Oct. 29	Ice Cream . . .	54346	Estate of Wm. Patrick, Halifax, N.S.	1 qt. . .	50	Vendor.....	
" 29	" ..	54347	" ..	1 " ..	50	" ..	
" 29	" ..	54348	" ..	1 " ..	50	" ..	
" 30	" ..	54349	A. Bond & Co., Halifax, N.S.	1 " ..	50	Vendors.....	
" 30	" ..	54350	" ..	1 " ..	50	" ..	
" 30	" ..	54351	D. R. Ross, Halifax, N.S.	1 " ..	50	Vendor.....	
" 30	" ..	54352	Scotia Pure Milk Co., Halifax, N.S.	1 " ..	40	Vendors.....	
" 30	" ..	54353	" ..	1 " ..	40	" ..	
" 30	" ..	54354	Jas. Karas, Halifax, N.S.	1 " ..	50	Scotia Pure Milk Co., Halifax, N.E.	
" 31	" ..	54355	A. N. Melitides, Halifax, N.S.	1 " ..	40	" ..	

DISTRICT OF NEW BRUNSWICK—

Sept. 30	Ice Cream....	50377	Thos. J. Phillips, St. John, N.B.	1 qt.	25	Vendor.....	
" 30	" ..	50378	People's Dairy, R. H. Crother propr., St. John, N.B.	1 "	30	" ..	
" 30	" ..	50379	A. Demerson, St. John, N.B.	1 "	nil.	" ..	
Oct. 1	" ..	50380	Frank White, St. John, N.B.	1 "	60	" ..	
" 1	" ..	50381	St. John Creamery, W. H. Bell, propr., St. John, N.B.	1 "	40	" ..	
" 1	" ..	50382	Wm. Hawker & Son, St. John, N.B.	1 "	60	Vendors.....	
" 8	" ..	50383	A. V. Checchi, St. Stephen, N.B.	1 "	nil.	Vendor.....	
" 14	" ..	50384	L. M. Vanwart, Fredericton, N.B.	1 "	60	" ..	
" 14	" ..	50385	Geo. F. Wilkes, Fredericton, N.B.	1 "	60	" ..	
" 21	" ..	50386	Maritime Dairy Co., Ltd., Sussex, N.B.	1 "	50	Vendors.....	

DISTRICT OF QUEBEC—

Sept. 22	Ice Cream ...	56159	George Jobin, 390 rue St. Joseph, Quebec.	1 pt.	30	Vendor.....	
" 22	" ..	56160	Edouard Boillard, 536 rue St. Valier, Quebec.	1 "	50	" ..	
" 22	" ..	56161	J. D. Vaillancourt, 358 rue St. Joseph, Quebec.	1 "	50	" ..	
" 24	" ..	56162	O. Vézina & Cie, 691 rue St. Valier, Quebec.	1 "	30	" ..	

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Fat.			

R. J. WAUGH, INSPECTOR.

	p. c.			
Pineapple.....	5.80		54346	Fat too low. Adulterated.
Vanilla.....	5.54		54347	" "
Chocolate.....	7.82		54348	" "
Pineapple.....	7.72		54349	" "
Vanilla.....	8.58		54350	" "
Strawberry fruit.....	11.18		54351	Genuine.
Vanilla.....	14.96		54352	"
Pineapple ..	13.24	Contains pineapple.....	54353	"
Vanilla.....	13.18	Contains strawberry seeds and pulp.	54354	"
"	15.44		54355	"

J. C. FERGUSON, INSPECTOR.

Vanilla.....	16.06		50377	Genuine.
Strawberry.....	18.68		50378	"
.....	25.36		50379	"
Strawberry ..	11.79		50380	Fat too low. Adulterated.
Vanilla	30.34		50381	Genuine.
"	10.00	Starch present	50382	Fat too low. Adulterated.
"	12.10	Gelatin present..	50383	" "
"	16.42		50384	Genuine.
Chocolate	14.02		50385	"
Vanilla.....	19.66		50386	"

F. X. W. E. BÉLAND, INSPECTEUR.

.....	8.68		56159	Fat too low. Adulterated.
.....	13.02	Starch present	56160	Somewhat below standard.
.....	12.74		56161	" " "
.....	14.14		56162	Genuine.

5 GEORGE V., A. 1915

BULLETIN No. 276—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1913.							
Sept. 24	Ice Cream....	56163	F. Clément, 785 rue St. Valier, Quebec.	1 pt..	15	Vendor .....	.....
" 25	"	56164	Emile Bédard, 188 rue Durocher, Quebec.	1 " ..	20	" .....	.....
" 25	"	56165	N. Tcharosq Pergantes, 254 ¹ / ₂ rue St. Joseph, Quebec.	1 " ..	30	" .....	.....
" 25	"	56166	A. L. Poliquin, 142 rue du Pont, Quebec.	1 " ..	30	" .....	.....
" 25	"	56167	Jos. Lanson, 269 rue St. Joseph, Quebec.	1 " ..	30	" .....	.....
" 26	"	56168	W. Hanelin, 300 rue St. Joseph, Quebec.	1 " ..	25	" .....	.....

DISTRICT OF THREE RIVERS—

Sept. 24	Ice Cream....	59742	Philippe Gervais, Joliette.	24 ozs.	25	Vendor .....	.....
" 24	"	59743	Wilfrid St. George, Joliette.	24 " ..	25	" .....	.....
" 24	"	59744	M. Stavros, Joliette.	24 " ..	30	" .....	.....
" 26	"	59745	I. Antoine Duval, Three Rivers.	24 " ..	25	" .....	.....
" 26	"	59746	I. R. O. Dumont, Three Rivers.	24 " ..	30	" .....	.....
" 26	"	59747	Adams Bros., Three Rivers.	24 " ..	30	Vendors .....	.....
" 26	"	59748	S. Chamberland, Three Rivers.	24 " ..	30	Vendor .....	.....
" 27	"	59749	Elie Rivard, Three Rivers.	24 " ..	25	" .....	.....
" 27	"	59750	Zéphirin Bernaguez, Three Rivers.	24 " ..	25	" .....	.....
" 22	"	59752	Veuve Ducharme, St. Félix de Valois.	24 " ..	30	" .....	.....

DISTRICT OF EASTERN TOWNSHIPS

Sept. 29	Ice Cream....	1746	F. Beaudette, Victoria-vil e.	1 qt..	60	Vendor .....	.....
" 29	"	1747	C. Beaudette, Arthabaska-vill e.	1 " ..	50	" .....	.....
" 29	"	1748	J. P. Edwards, Dauville..	1 " ..	50	" .....	.....
Oct. 1	"	1749	J. A. McLean, Sherbrooke	1 " ..	50	" .....	.....
" 2	"	1750	A. J. Lemieux, Megantic.	1 " ..	60	" .....	.....
" 6	"	1751	Y. Angelos, et Cie, Coaticook.	1 " ..	50	Vendors .....	.....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Fat.			

Concluded.

	p.c.			
.....	6.16	.....	56163	Fat too low. Adulterated.
.....	2.35	Starch present	56164	" "
.....	15.58	.....	56165	Genuine.
.....	6.41	.....	56166	Fat too low. Adulterated.
.....	7.90	.....	56167	" "
.....	21.54	.....	56168	Genuine.

DR. V. P. LAVALLÉE, INSPECTOR*

.....	20.68	.....	59742	Genuine.
.....	16.38	.....	59743	"
.....	14.62	.....	59744	"
.....	7.57	.....	59745	Fat too low. Adulterated.
.....	13.24	.....	59746	Somewhat below standard.
.....	15.08	.....	59747	Genuine.
.....	6.97	Starch present.....	59748	Fat too low. Adulterated.
.....	8.73	.....	59749	" "
.....	9.00	.....	59750	" "
This Ice Cream was sold to me as being prepared with "Jello" instead of cream.	3.09	.....	59752	Sold as imitation.

J. C. ROULEAU, INSPECTOR.

.....	27.32	.....	1746	Genuine.
.....	13.74	.....	1747	"
.....	12.16	.....	1748	Fat too low. Adulterated.
.....	10.26	.....	1749	"
.....	11.42	.....	1750	"
.....	Samples lost	.....	1751	Samples lost.

5 GEORGE V., A. 1915
BULLETIN No. 276—

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
					Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—								
1913.								
Oct.	7	Ice Cream....	1752	H. A. Thayer, Rock Is-land.	1 qt..	50	Vendor.....	
"	9	"	1753	Xenos & Xenos, Granby.	1	50	Vendor	
"	14	"	1754	Fouriegos & Christakos...	1	40	"	
"	14	"	1755	Alf. Ganam ..	1	50	Vendor	
DISTRICT OF MONTREAL—								
Nov.	14	Ice Cream....	58646	J. Thomas, 623 Wellington st., Montreal.	1 qt..	40	Vendor	
"	17	"	58647	M. Manos, 757 Notre Dame, west, Montreal.	1	50	"	
"	17	"	58648	M. L. Michelson, 989 Notre Dame, west, Montreal.	1	40	"	
"	17	"	58649	Sperdokos Bros., 1382 Notre Dame west, Montreal.	1	50	Vendors.....	
"	18	"	58650	Olympia Candy Co., 2433 Notre Dame, west, Montreal.	1	40	"	
"	18	"	58651	S. Thomas, 2025 Notre Dame, west, Montreal.	1	40	Montreal Dairy Co.	
"	18	"	58652	Litson Bros., 1917 Notre Dame, west, Montreal.	1	40	Vendors.....	
"	18	"	58653	Verdun Confectionery, 179 Church st., Verdun.	1	40	"	
"	18	"	58654	Jeffery Bros., 221 Church st., Verdun.	1	40	Vendor.....	
"	18	"	58655	D. Milaros, 1254 Wellington, Verdun.	1	40	"	
1914.								
Mch.	26	Ice Cream....	62404	Montreal Dairy Co. Ltd., Montreal.	1 gall.	100	Vendors	
DISTRICT OF OTTAWA—								
1913.								
Sept.	17	Ice Cream....	59161	W. B. Clark, Renfrew ..	1qt	50	Neilsons, Toronto.	Manufacturers..
"	17	"	59162	D. J. Ritza, Renfrew	1	1.00	Ottawa Dairy Co., Ltd., Ottawa.	" ..
"	20	"	59163	W. Jenkins, Carleton Place.	1	50	" ..	" ..
"	24	"	59164	Chas. H. Roger, Britannia.	1	50	Vendor.....	
"	24	"	59165	T. D. Sayer Aylmer Park, P. Q.	1	50	"	
"	24	"	59166	Thos. Burns, Sparks st., Ottawa.	1	60	Ottawa Dairy Co., Ltd., Ottawa.	Manufacturers..
"	26	"	59167	Walter Nixon, Sparks st., Ottawa.	1	60	Vendor.....	
"	29	"	59168	Harrison Pharmacy, Rideau st., Ottawa.	2br'ks	50	Ottawa Dairy Co., Ltd., Ottawa.	Manufacturers..
"	29	"	59169	J. S. Brown, Rideau st., Ottawa.	2	50	" ..	" ..
Oct.	1	"	59170	Alex. McLaughlin, Prescott.	1 qt..	50	Vendor	
"	1	"	59200	C. A. Kavanagh, Prescott.	1	50	"	

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Fat.			

Concluded.

	p. c.			
.....	11.00	.....	1752	Fat too low. Adulterated.
.....	18.18	.....	1753	Genuine.
.....	20.18	.....	1754	"
.....	23.44	.....	1755	"

D. J. KEARNEY, INSPECTOR

.....	11.07	.....	58646	Fat too low. Adulterated.
.....	14.32	.....	58647	Genuine.
.....	14.62	.....	58648	"
.....	15.32	.....	58649	"
.....	8.89	.....	58650	Fat too low. Adulterated.
.....	8.58	.....	58651	" "
.....	9.85	.....	58652	" "
.....	7.73	.....	58653	" "
.....	16.42	.....	58654	Genuine.
.....	14.56	.....	58655	"
.....	6.82	.....	62404	Fat too low. Adulterated.

J. A. RICKEY, INSPECTOR.

Chocolate.	10.62	Gelatin present	59161	Fat too low. Adulterated.
Strawberry.	14.04	Very strongly dyed.	59162	Genuine.
Vanilla.	16.44	.....	59163	"
Strawberry	10.18	Some strawberry pulp.	59164	Fat too low. Adulterated.
Vanilla.	11.68	Gelatin present	59165	" "
"	14.94	.....	59166	Genuine.
"	14.00	.....	59167	"
Walnut ice cream brick..	12.62	Gelatin present, pieces of nuts and fruit pulp.	59168	"
"	13.86	.....	59169	"
.....	20.62	.....	59170	"
.....	15.24	.....	59200	"

5 GEORGE V., A. 1915

BULLETIN No. 276—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Sept. 19	Ice Cream . . .	60031	N. R. Grimm, Kingston..	1 qt..	50	Vendor....	
" 19	" . . .	60032	T. Sakells, Kingston....	1 " "	50	"	
" 19	" . . .	60033	H. P. Pappas, Kingston..	1 " "	50	"	
" 19	" . . .	60034	T. Sakells, Kingston....	1 " "	50	"	
" 19	" . . .	60035	H. T. Prices, Kingston..	1 " "	50	"	
" 19	" . . .	60036	F. J. Hoag, Kingston . .	1 " "	50	"	
" 19	" . . .	60037	Geo. Masoud, Kingston..	1 " "	50	"	
" 19	" . . .	60038	Geo. Mahood, Kingston..	1 " "	50	"	
" 19	" . . .	60039	B. Zbar, Kingston.....	1 " "	50	George Masoud, Kingston.	
" 19	" . . .	60040	W. W. Gibson, Kingston.	1 " "	50	Neilson's, Toronto.	

DISTRICT OF TORONTO—

Sept. 24	Ice Cream . . .	57521	The City Dairy Co., Ltd., Spadina Crescent, To- ronto.	3 ozs.	25	Vendors	
" 24	" . . .	57522	Geo. Coles, Ltd., 719 Yonge st., Toronto.	3 " "	25	"	
" 25	" . . .	57523	Patterson Candy Co., 951 Queen st. west, Toronto.	3 " "	25	"	
" 25	" . . .	57524	The Wm. Neilson Co., Ltd., 307 Gladstone ave., To- ronto.	3 " "	25	"	
" 25	" . . .	57525	J. P. Langley, assignee of Union Dairy Ice Cream Co., 12 Breadbare st., Toronto.	3 " "	30	"	
" 25	" . . .	57526	Devonshire Mfrg. Co., rear of 64-68 Davenport road, Toronto.	3 " "	25	"	
" 25	" . . .	57527	H. W. Hunt, 788 Yonge st., Toronto.	3 " "	25	Vendor.....	
" 25	" . . .	57528	Huylers, 130 Yonge st., Toronto.	3 " "	25	"	
" 25	" . . .	57529	James Boukydes, 153 Yonge st., Toronto.	3 " "	25	"	
" 26	" . . .	57530	Wm. Usser, 410 Bloor st., west, Toronto.	3 " "	30	"	

DISTRICT OF HAMILTON—

Oct. 1	Ice Cream . . .	50880	Louis Christopher, 79 King st., east, Hamilton.	1 qt..	40	.....	Burke Bros., Hamilton.
" 1	" . . .	50881	H. McArdle, 113 King st. east, Hamilton.	1 " "	40	.....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.	Remarks.	No. of Sample.	Remarks and Opinion of the chief Analyst.
	Fat.			

JAS. HOGAN, INSPECTOR.

	p. c.			
Vanilla.....	17.64	.....	60031	Genuine.
Strawberry.....	22.08	.....	60032	"
Vanilla.....	21.36	.....	60033	"
".....	24.22	.....	60034	"
Maple Walnut.....	18.70	.....	60035	"
Vanilla.....	13.06	.....	60036	Somewhat below standard.
".....	18.32	.....	60037	Genuine.
Chocolate.....	11.67	.....	60038	Fat too low. Adulterated.
Strawberry.....	18.42	.....	60039	Genuine.
Egg Coffee.....	10.81	Gelatin present	60040	Fat too low. Adulterated.

H. J. DAGER, INSPECTOR.

Vanilla.....	17.60	.....	57521	Genuine.
Strawberry.....		Both samples spoiled by fermentation, and blowing out of corks.	57522	Samples lost.
Vanilla.....	17.78	.....	57523	Genuine.
".....	11.03	Gelatin present	57524	Fat too low. Adulterated.
Maple Walnut.....	11.88	Gelatin and gum present	57525	Genuine.
Vanilla.....	10.79	.....	57526	Fat too low. Adulterated.
".....	17.84	.....	57527	Genuine.
Chocolates.....	20.12	.....	57528	"
Strawberry.....	20.92	.....	57529	"
Egg Coffee.....	13.88	.....	57530	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	15.34	.....	50880	Genuine.
.....	14.84	.....	50881	

Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1913.							
Oct.	1	Ice Cream....	50882 C.J.Christopher, 133 King st. East, Hamilton.	1 qt..	40	Vendor.....	.....
"	1	"	50883 Pure Milk Co., John st., Hamilton.	1 " ..	40	Vendors .....	.....
"	1	"	50884 George Knapman, 136 James st., north, Hamilton.	1 " ..	40	Vendor.....	.....
"	1	"	50885 A. Sinerneco, 105 James st., north, Hamilton.	1 " ..	45	" .....	.....
"	1	"	50886 J. H. Ausseur, 84 James st., north, Hamilton.	1 " ..	50	" .....	.....
"	1	"	50887 C. E. Walker, 100 King st., west, Hamilton.	1 " ..	40	" .....	.....
"	1	"	50888 J. D. Chilman, 54 King st., west, Hamilton.	1 " ..	40	.....	D. O. Buist, Hamilton.
"	1	"	50889 Christophers, Ltd., 5 King st., east, Hamilton.	1 " ..	40	Vendors .....	.....

DISTRICT OF WINDSOR—

Oct.	6	Ice Cream....	54879 Olympia Candy Co., London.	1 qt..	Nil.	Vendors .....	.....
"	6	"	54880 Geo. Peters, London....	1 " ..	20	.....	.....
"	6	"	54881 J. E. Boomer, London....	1 " ..	40	.....	.....
"	6	"	54882 Silverwood, Ltd., London.	1 " ..	nil.	Vendors .....	.....
"	6	"	54883 Fawkes & Son, London....	1 " ..	30	" .....	.....
"	6	"	54884 C. J. Leach, London....	1 " ..	nil.	Vendor.....	.....
"	6	"	54885 P. H. Hiriskos, London..	1 " ..	25	" .....	.....
"	7	"	54886 Angus Taylor, St. Thomas	1 " ..	40	" .....	.....
"	7	"	54887 R. H. Beattie, "	1 " ..	40	" .....	.....
"	7	"	54888 T. L. Short, "	1 " ..	40	" .....	.....

DISTRICT OF MANITOBA—

Sept.	25	Ice Cream....	48931 The Crescent Creamery Co., Ltd., Winnipeg.	1 qt..	Nil.	Vendors .....	.....
"	25	"	48932 " " "	1 " ..	"	" .....	.....
"	25	"	48933 The Carson Hygienic Dairy Co., Ltd., Winnipeg.	1 " ..	"	" .....	.....
"	25	"	48934 " " "	1 " ..	"	" .....	.....
"	26	"	48935 Premier Creamery Co., Winnipeg.	1 " ..	"	" .....	.....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Fat.			

Concluded.

	p. c.			
.....	20.56	.....	50882	Genuine.
.....	16.32	.....	50883	" "
.....	18.82	.....	50884	" "
.....	14.04	.....	50885	" "
.....	13.24	Gelatin present.	50886	Somewhat below standard.
.....	19.22	.....	50887	Genuine.
.....	16.78	.....	50888	"
.....	18.58	.....	50889	"

JNO. TALBOT, INSPECTOR.

.....	15.78	.....	54879	Genuine.
.....	17.38	.....	54880	"
.....	17.58	.....	54881	"
.....	15.78	.....	54882	"
.....	15.92	.....	54883	"
.....	15.46	.....	54884	"
.....	14.06	.....	54885	"
.....	11.84	.....	54886	Fat too low. Adulterated.
.....	20.66	.....	54887	Genuine.
.....	12.64	.....	54888	Fat too low. Adulterated.

A. C. LARIVIÈRE, INSPECTOR.

Strawberry.....	7.90	Gelatin present	48931	Fat too low. Adulterated.
Vanilla.....	8.35	"	48932	" "
Strawberry....	10.50	"	48933	" "
Vanilla.....	12.08	"	48934	" "
".....	14.50	.....	48935	Genuine.

5 GEORGE V., A. 1915

BULLETIN No. 276—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1913.							
Oct.	9	Ice Cream....	48936 Conliffe & Whitlock, 1 qt Notre Dame Ave., Win- nipeg.	60		The Crescent Creamery Co., Winnipeg.	
"	9	"	48937 W. Reid, Notre Dame 1 " ave., Winnipeg.	60		"	
"	24	"	48938 Osborne Candy Kitchen, 1 " P. J. Zissas, prop., Os- borne st., Winnipeg.	50		The Carson Hy- gienic Dairy, Winnipeg.	
"	24	"	48939 Royal Candy Kitchen, 1 " G. Gerasse, prop., Main st., Winnipeg.	50		Vendor	
"	25	"	48940 Pusateri Bros., Portage 1 " ave., Winnipeg.	50		The Crescent Creamery Co., Winnipeg.	

DISTRICT OF ROCKY MOUNTAIN—

Oct.	1	Ice Cream ...	49946 R. W. & E. H. Griffith, 1 qt Nelson, B.C.	75		Vendors	
"	1	"	49947 M. Scanlon, Nelson, B.C. 1 "	75		Hazelwood Co., Spokane, Wash.	
"	1	"	49948 Poole Drug Co., Nelson, 1 " B.C.	75		Spokane Bakery, Spokane, Wash.	
"	17	"	49970 Jas. Wood, Fernie, B.C. 1 "	75		Hazelwood Co., Spokane, Wash.	
Nov.	3	"	49991 Mrs. H. J. Jones, Ross- 1 " land, B.C.	59		Vendor.	

DISTRICT OF VICTORIA—

Oct.	7	Ice Cream	57648 H. A. Lilly, 1417 Douglas 1 qt. st., Victoria, B.C.	50		Vendor.	
"	7	"	57651 V. Paul, 611 Johnston st., 1 " Victoria, B.C.	60		Royal Dairy, Vic- toria, B.C.	
"	15	"	57653 John Balma, 812 Yates st., 1 " Victoria, B.C.	50		Connaught Dairy, Victoria, B.C.	
"	15	"	57655 Dom. Candy Kitchen, 806 1 " Yates st., Victoria, B.C.	50		Northwestern Cre- amery Co., Vic- toria, B.C.	
"	16	"	57656 The Empress Confection- 1 " ery Co., 1325 Govt. st., Victoria, B.C.	50		Vendors	
"	16	"	57657 Ivel's Pharmacy, 1415 1 " Govt. st., Victoria, B.C.	50		"	
"	16	"	57660 Royal Dairy, 1119 Douglas 1 " st., Victoria, B.C.	50		"	
"	16	"	57661 Northwestern Creamery 1 " Co., 650 Cormorant st., Victoria, B.C.	50		"	
"	17	"	57662 Terry's Drug Store, 705 I 1 " Fort st., Victoria, B.C.	50		"	
"	17	"	57664 The Bon Ton, 649 Yates 1 " st., Victoria, B.C.	50		"	

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector' Report. (Is not an expression of Opinion.)	Results of Analysis.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Fat.			

Concluded.

	p. c.			
.....	9.50	Gelatin present..	48936	Fat too low. Adulterated.
.....	8.84	" "	48937	"
.....	12.26	.....	48938	"
.....	14.18	.....	48939	Genuine.
.....	11.16	.....	48940	Fat too low. Adulterated.

THOS. PARKER, INSPECTOR.

.....	27.50	.....	49946	Genuine.
.....	12.36	.....	49947	Fat too low. Adulterated.
.....	10.40	.....	49948	"
.....	12.65	.....	49970	"
.....	17.62	.....	49991	Genuine.

D. OSULLIVAN, INSPECTOR.

.....	5.90	.....	57648	Fat too low. Adulterated.
.....	15.26	.....	57651	Genuine.
.....	9.40	.....	57653	Fat too low. Adulterated.
.....	13.84	.....	57655	Genuine.
.....	13.04	.....	57656	Somewhat below standard.
.....	16.06	.....	57657	Genuine.
.....	18.38	.....	57660	"
.....	16.54	.....	57661	"
.....	13.28	.....	57662	Somewhat below standard.
.....	12.96	.....	57664	"

SESSIONAL PAPER No. 14

APPENDIX T

BULLETIN No. 277—TINCTURE OF IODINE

OTTAWA, February 18, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit a report dealing with 72 samples of Tincture of Iodine purchased in September and October last.

The following is a statement of results :—

	Samples.
Found genuine.....	62
“ adulterated.....	8
“ doubtful.....	2
Total.....	72

Adulteration consists in the use of Methyl Alcohol (Wood Spirit) for Ethyl Alcohol in the preparation of the article. Ethyl Alcohol alone is prescribed by the Pharmacopoeias; and the Inland Revenue Act, Sec. 266 requires announcement of the presence of Methyl Alcohol, in black letters not less than one fourth of an inch in height, wherever it is used.

Two samples are marked doubtful because they do not conform to the formula of the British Pharmacopoeia, nor do they, with exactitude meet the requirements of any other pharmacopoeia. They have, however, evidently been prepared with honest intention, as one contains over 5 per cent of Iodine, and the other meets a demand for a colorless tincture, which however should not be confused with the B. P. Tincture of Iodine.

The last examination of Tincture of Iodine was made in 1908, and results are published in Bulletin No. 152.

I beg to recommend publication of this report as Bulletin No. 277.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst

5 GEORGE V., A. 1915

BULLETIN No. 277—

Date of Collection	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA

1913.							
Oct. 13	Tincture of Iodine.	54311	L. C. Gardener Co., Yarmouth, N.S.	12 oz	75	Vendor.	
" 16	"	54312	H. E. Wilson, Windsor, N.S.	12 "	1.00	"	
" 23	"	54313	Brown Bros. & Co., Halifax, N.S.	12 "	90	Vendors.	
" 27	"	54314	Crowe Bros., Truro, N.S.	12 "	1.00	"	
" 27	"	54315	J. J. Kinley, Lunenburg, N.S.	12 "	1.00	Vendor.	

DISTRICT OF NEW BRUNSWICK—

Sept. 20	Tincture of Iodine.	50387	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 bots.	1.20	Vendors.	
Oct. 3	"	50388	The Canadian Drug Co., Ltd., St. John, N.B.	3 "	1.20	"	
" 16	"	50389	The Baird Co., Woodstock, N.E.	3 "	1.20	"	
" 22	"	50390	Leger Drug Co., Moncton, N.B.	3 "	1.20	"	
" 23	"	50391	C. P. Hickey, Chatham, N.B.	3 "	1.00	Vendor	

DISTRICT OF QUEBEC—

Sept. 22	Tincture of Iodine.	56169	J. B. Giroux, 385 rue St. Joseph, Quebec.	12 oz.	1.80	Vendor.	
" 22	"	56170	Jos. Masson, 808 rue St. Valier, Quebec.	12 "	1.60	"	
" 23	"	56171	A. Martineau, 734 rue St. Joseph, Quebec.	12 "	1.20	"	
" 26	"	56172	W. Brunet & Cie, 139 rue St-Joseph, Quebec.	12 "	1.20	Vendors.	
" 26	"	56173	L. E. Martel, 51 rue St. Joseph, Quebec.	12 "	90	Vendor.	

DISTRICT OF THREE RIVERS—

Sept. 24	Tincture of Iodine.	59740	A. L. Boucher, Joliette.	12 oz	1.25	Vendor	
" 25	"	59755	R. W. Williams, Three Rivers.	12 "	1.00	Lymans, Ltd.	
" 25	"	59756	J. A. Peltier, Three Rivers.	12 "	1.20	Vendor.	
" 25	"	59757	L. P. Normand, Three Rivers.	12 "	1.10	"	
" 27	"	59758	J. T. Gaudet, Joliette.	12 "	1.25	"	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Iodine %	Pot- Iodide of % assum.	Alcohol.			
			By Volume.	Kind.		
R. J. WAUGH, INSPECTOR.						
	p. c.	p. c.	p. c.			
Sol as B. P. Formula...	8.94	None.	89.80	Ethyl 13.83 Methyl 75.97	54311	Not R. P. formula. Contains methyl alcohol. Adulterated.
" " "	2.56	2.36	79.71	Ethyl	54312	Genuine.
" " "	2.49	2.51	79.71	"	54313	"
" " "	2.54	2.42	79.71	"	54314	"
" " "	2.65	2.28	76.24	"	54315	"

J. C. FERGUSON, INSPECTOR

" " "	3.19	3.05	81.60	Ethyl		50387	Genuine.
" " "	2.66	2.80	81.60	"		50388	"
U. S. Phar. formula....	5.79	None.	85.41	Methyl (crude.)		50389	Contains methyl alcohol. Adul- terated.
" " "	2.89	3.05	75.21	Ethyl		50390	Genuine.
B. P. Formula.	2.82	2.80	76.91	"		50391	"

F. X. W. E. BELAND, INSPECTOR.

" " "	5.61	None.	78.48	Ethyl.		56169	Not P. B. formula. Doubtful.
" " "	2.25	2.17	80.10	"		56170	Genuine.
" " "	3.33	2.10	80.10	"		56171	"
" " "	2.26	2.78	79.32	"		56172	"
" " "	2.41	2.48	75.52	"		56173	"

DR. V. P. LAVALLEE, INSPECTOR

" " "	2.07	3.32	70.62	Ethyl.		59740	Genuine.
" " "	2.52	2.65	76.91	"		59755	"
" " "	2.36	2.62	78.48	"		59756	"
" " "	2.37	2.20	80.10	"		59757	"
" " "	2.07	3.32	68.78	"		59758	"

5 GEORGE V., A. 1915

BULLETIN No. 277—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1913.							
Sept. 29	Tincture of Iodine.	1757	H. Ferron, Arthabaskville	12 oz.	1 50		
Oct. 1	"	1758	E. C. Frazer, Sherbrooke.	12 "	1 50	Vendor.	
" 2	"	1759	G. A. Codère, Megantic.	12 "	1 80	"	
" 9	"	1760	A. Vaillancourt, Waterloo	10 "	1 00	"	
" 15	"	1761	Dr. E. St Jacques, St. Hyacinthe.	12 "	1 20	"	

DISTRICT OF MONTREAL—

No. 3	Tincture of Iodine.	58621	Arthur Clément, Notre Dame st., Lachine.	3 bot.	1 25	Vendor	
" 3	"	58622	Lachine Pharmacy, 370 St. Joseph st., Lachine.	3 "	1 00	"	
" 4	"	58123	J. Victor Richmond, 701 Wellington st., Lachine.	3 "	1 20	"	
" 4	"	58621	J. A. Asselin, 516 Centre st., Montreal.		1 00	"	
" 4	"	58625	Dr. Gauthier, 665 Centre st., Montreal.		1 35	"	

DISTRICT OF VALLEYFIELD—

Nov. 29	Tincture of Iodine.	58671	St. Oage, Pharmacy Valleyfield.	3 bot.	1 50	Vendor	
" 29	"	58672	Dr. J. I. A. Gauthier, Valleyfield.	3 "	1 35	"	

DISTRICT OF OTTAWA—

Sept. 17	Tincture of Iodine.	59171	W. B. Clark, Druggist, Renfrew.	12 oz	1 00	Vendor.	
" 17	"	59172	D. J. Ritza, Renfrew.	12 "	1 20	"	
Oct. 4	"	59173	Clarence H. Lewis, Bay st., Ottawa.	12 "	1 20	"	
" 4	"	59174	Fred Brethour, Brouson ave., Ottawa	10 "	1 00	"	
" 4	"	59175	Allen & Cochrane, Druggists, Bank and Gilmour sts., Ottawa.	12 "	1 20	Vendors.	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Iodine.	Iodide of Potas- sium.	Alcohol.			
			By Volume.	Kind.		

J. C. ROULEAU, INSPECTOR.

	p.c.	p.c.	p.c.		
Bottle labelled Lyman. Knox & Co., Montreal.	2.12	2.20	67.69	Ethyl.	1757 Genuine.
.....	2.85	2.03	82.45	"	1758 " "
Decolourized.....					*1759 Not B. P. tincture. Doubtful.
.....	2.43	2.37	79.71	Ethyl.	1760 Genuine.
.....	2.97	3.05	81.28	"	1761 " "

D. J. KEARNEY, INSPECTOR.

.....	2.38	2.79	78.48	Ethyl.	58621 Genuine.
.....	2.57	0.78	70.62	"	58622 Iodide of potassium too low, Adulterated.
.....	2.97	3.31	75.52	"	58623 Genuine.
.....	2.59	1.05	80.05	"	58624 Iodide of potassium too low, Adulterated.
.....	2.38	2.25	77.69	"	58625 Genuine.

D. J. KEARNEY, ACTING INSPECTOR.

.....	1.55	2.73	78.48	Ethyl.	58671 Iodine too low. Adulterated.
.....	2.39	3.05	76.55	"	58672 Genuine.

J. A. RICKEY, INSPECTOR.

.....	2.55	2.45	78.48	Ethyl.	59171 Genuine.
.....	2.96	2.53	78.00	"	59172 " "
.....	2.50	2.62	76.91	"	59173 " "
.....	3.74	2.63	78.88	"	59174 " "
.....	3.10	2.32	81.28	"	59175 " "

* Labelled Tincture of Iodine, Decolourized.

5 GEORGE V., A. 1915

BULLETIN No. 277

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.
DISTRICT OF KINGSTON							
1913.							
Sept. 22	Tincture of Iodine.		60041 W. H. Lattimer, Belleville.	12 oz.	100	Vendor.	
" 22	"		60042 F. C. Clarkes, Belleville.	12 "	120	"	
" 23	"		60043 O. G. Johns, Cobourg	12 "	120	"	
" 23	"		60044 H. W. Mitchell, Port Hope.	12 "	150	"	
" 24	"		60045 W. J. Kent, Peterboro.	12 "	100	"	

DISTRICT OF TORONTO—

Sept. 18	Tincture of Iodine.		57494 W. M. Adams, Queen Duncan sts., Toronto.	10 oz.	90	Vendor.	
" 22	"		57495 J. A. Gallagher James Gerrard sts., Toronto.	12 "	150	"	
" 22	"		57496 J. S. Dyer, 380 Dundas st., Toronto.	12 "	75		
" 24	"		57497 J. W. Struthers & Sons, Arthur & Euclid sts., Toronto.	12 "	125	Vendors	
" 24	"		57498 W. Latimer, 462 Queen st. west, Toronto.	12 "	150	Vendor.	

DISTRICT OF HAMILTON—

Oct. 1	Tincture of Iodine.		50880 V. E. Christlam, James & Cameron sts., Hamilton.	12 o	100	Vendor	
" 1	"		50891 Sweet & Dunlop, 270 King st., west, Hamilton.	12 "	120	"	
" 1	"		50892 R. C. Secamith, 240 York st., Hamilton.	12 "	110	Nat. Drug & Chemical Co., Ltd.	
" 2	"		50893 W. Ward, Simpson, Market st. Brantford.	28 12 "	165	Vendor	
" 3	"		50894 Walker, Abbs & Co., st. Paul, st., St. Catharines.	295 12 "	100	Vendors	

DISTRICT OF WINDSOR—

Oct. 8	Tincture of Iodine.		54411 J. McRobue, Petrolia.	12 oz.	100	Vendor	
" 8	"		54413 Jackson & Co., Petrolia.	12 "	120	Vendors	
" 9	"		54428 G. G. Ingersoll, Sarnia.	12 "	100	Vendor.	
" 9	"		54429 P. T. McGibbon, Sarnia.	12 "	100	"	
" 9	"		54434 H. Robertson, Sarnia.	12 "	120	"	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Iodine.	Iodide of Potas- sium.	Alcohol.			
			By Volume.	Kund.		
JAS. HOGAN, INSPECTOR.						
	p. c.	p. c.	p. c.			
.....	2.34	2.59	77.30	Ethyl . .	60041	Genuine.
.....	2.30	3.03	79.71	"	60042	"
.....	3.12	2.68	78.09	"	60043	"
.....	1.90	1.37	83.59	Ethyl . .	60044	Methyl alcohol present. Iodine
				68.27		too low. Adulterated.
				Methyl .		
				15.32		
.....	3.49	2.13	73.79	Ethyl	60045	Genuine.

H. J. DAGER, INSPECTOR.

.....	2.66	2.78	80.88	Ethyl	57494	Genuine.
.....	2.77	2.76	81.28	"	57495	"
.....	2.89	2.91	79.71	"	57496	"
.....	2.64	2.45	78.79	"	57497	"
.....	2.59	2.57	80.10	"	57498	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	2.52	2.39	81.28	Ethyl. . . .	50880	Genuine.
.....	2.13	2.90	65.86	"	50891	"
.....	2.46	2.44	76.24	"	50892	"
.....	2.59	2.66	86.44	Methyl. . .	50893	Contains Methyl alcohol. Adul-
						terated.
.....	3.26	2.61	79.32	Ethyl. . . .	50894	Genuine.

JNO. TALBOT, INSPECTOR.

.....	3.03	2.79	75.70	Ethyl. . . .	54411	Genuine.
.....	2.82	2.86	81.60	"	54413	"
.....	2.67	2.44	77.69	"	54428	"
.....	2.69	2.61	82.37	"	54429	"
.....	3.19	2.86	80.10	"	54434	"

5 GEORGE V., A. 1915

BULLETIN No. 277—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1913.							
Oct. 6.	Tincture of Iodine.	48985	McLellan Drug Store, Selkirk ave., Winnipeg.	12 oz.	150	Vendor	
" 6.	"	48986	North Main Pharmacy, Winnipeg.	12 "	150	"	
" 6.	"	48987	R. C. Jamieson, druggist, Ellice ave.	12 "	180	"	
" 6.	"	48988	Robinson Drug Store, Ellis and Sherbrooke st.	12 "	180	"	
" 7.	"	48989	A. J. Brown & Co., Market st.	12 "	180	"	

DISTRICT OF ROCKY MOUNTAINS—

Oct. 3.	Tincture of Iodine.	49968	Rutherford Drug Co., Nelson, B.-C.	12 oz.	180	Vendors	
" 3.	"	49969	Canada Drug & Book Co., Nelson, B.C.	12 "	135	"	
" 17.	"	49976	N. E. Suddaby, Fernie.	12 "	135	Vendor.	
" 17.	"	49977	McLean Drug and Book Store, Fernie.	12 "	180	"	
Nov. 3.	"	49990	Thos. Stout, Rossland.	12 "	150	"	

DISTRICT OF VICTORIA—

Oct 18	Tincture of Iodine.	57643	Hall & Co., 702 Yates, st., Victoria, B.C.	12 oz.	150	Vendors	
" 16	"	57658	Ivels Pharmacy, 1415 Government, st., Victoria, B.C.	12 "	150	Vendor	
" 16.	"	57659	Oak Bay Pharmacy, Oak Bay Junction, Victoria, B.C.	12 "	150	"	
" 17	"	57663	Terry's Drug Store, 705 Fort, st., Victoria, B.C.	12 "	150	"	
" 18.	"	57669	Dean & Hiscock's, 627 Yates, st., Victoria, B.C.	12 "	150	Vendors	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Iodine w	Iodide of Pot- assium w/v	Alcohol.			
			Volume.	Kind.		

A. C. LARIVIÈRE, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	2.12	2.45	83.09	Ethyl...	48985	Genuine.
.....	2.69	2.83	80.49	"	48986	"
.....	2.95	2.97	83.43	"	48987	"
.....	2.50	2.56	78.48	"	48988	"
.....	2.94	2.91	83.43	"	48989	"

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	2.79	2.79	79.71	Ethyl....	49968	Genuine.
.....	2.74	2.62	76.55	"	49969	"
.....	3.06	2.83	77.69	"	49976	"
.....	2.59	2.58	75.52	"	49977	"
.....	2.61	2.51	78.88	"	49990	"

D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	2.21	2.40	82.70	Ethyl....	57643	Genuine.
.....	2.82	2.47	79.71	"	57638	"
.....	3.15	3.36	78.48	"	57659	"
.....	4.15	None.	75.88	Ethyl 58.60 Methyl 17.28	57663	Contains Methyl alcohol. Adul- terated.
.....	2.69	2.47	78.09	Ethyl...	57669	Genuine.

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APPENDIX U

BULLETIN No. 278—INFANTS' AND INVALIDS' FOODS.

OTTAWA, February 19, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report dealing with 86 samples purchased as foods for infants and invalids, in June and July of last year.

This class of foods have been examined on two former occasions, viz: in 1898 (See Bulletin No. 59) and in 1909 (See Bulletin No. 185).

They fall into three groups, essentially characterized by predominance of fat, protein or starch, and all of them are of value under certain conditions. Their economical use depends largely upon the intelligence with which they are used. Regarded merely from the point of view of nutrient value, they are undoubtedly expensive foods, but under the guidance of a physician or qualified nurse, they may be found economical or at least not unduly expensive.

Thirty different brands are represented by the work contained herein: and this report will be found helpful to mothers and to physicians. No adulteration has been found in any of these foods.

I would respectfully recommend its publication as Bulletin No. 278.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 278—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA							
1913.							
July 8	Infants and Invalids Food.	54122	Nat. Drug & Chem. Co., Halifax, N.S.	3 pkg.	60	Wells, Richardson Manufacturers Co., Montreal.	
" 14	" "	54123	Brown Bros., N.S. Halifax, N.S.	3 "	45	Keen Robertson Co., London, Eng.	N. D. & C. Co., Halifax, N.S.
" 14	" "	54124	J. R. Rawley Estate, Halifax, N.S.	3 "	90	Allen & Hanburys, London, Eng.	"
" 15	" "	54125	L. C. Gardner & Co., Yarmouth, N.S.	3 "	1.05	Smith, Klein & French, Philadelphia, Pa.	Unknown.
23 "	" "	54126	W. H. Stevens, Dartmouth, N.S.	3 "	1.20	Ridges Food Co., Boston.	N. D. & C. Co., Halifax, N.S.

DISTRICT OF NEW BRUNSWICK—

June 30	Infants and Invalids Food.	50621	The Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 pkg.	75	Keen Robinson & Co., London, E.	
" 26	" "	50622	The Canadian Drug Co., Ltd., St. John, N.B.	3 "	1.50	J. R. Neave & Co., Fordingbridge, Eng.	
July 8	" "	50623	R. T. Mack, Fredericton, N.B.	3 "	1.50	Horlicks Malted Milk Co., Racine, Wis., U.S.	
" 9	" "	50624	Edgar W. Mair, Woodstock, N.B.	3 "	1.50	Allen & Hanburys, Ltd., London, Eng.	
" 23	" "	50625	Fairweather Bros., Moncton, N.B.	3 "	1.50	Henri Nestle, Vevey, Switz.	

DISTRICT OF QUEBEC—

June 23	Infants and Invalids Food.	37070	J. B. Giroux, 385 rue St. Joseph, Quebec.	3 box.	1.50	Nestle's Food, Switzerland.	J. E. Livernois.
" 23	" "	37071	" " "	3 "	1.50	Horlick's Malted Milk Co.	" "
" 23	" "	37072	" " "	3 "	1.20	La nentricia Lacken, Belgique.	" "
" 23	" "	37073	" " "	3 "	1.95	Virol, Ltd., 155-156 Old st., London, Eng.	" "
" 23	" "	37074	" " "	3 "	1.50	Allen & Hanburys, Ltd., London.	" "

DISTRICT OF THREE RIVERS—

June 20	Infants and Invalids Food.	58921	C. Barrette, Joliette.	3 pkg.	75	.....	T. Coursol, Montreal.
" 20	" "	58922	" " "	3 "	75	Christie, Brown Co., Toronto.	.....
" 20	" "	58923	" " "	3 "	1.50	Henri Nestle, Vevey, Switz.	Hudon, Hébert, Montreal.
" 20	" "	58924	I. T. Gaudet, Joliette.	3 "	1.50	Mellins M. F. G. Co., London, Ont.

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INFANTS AND INVALIDS FOODS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.
	Moisture.	Fat.	Proteids N x 6.25.	Ash.	Cold water Extractive.	Starch, etc., by difference.		
R. J. WAUGH, INSPECTOR.								
.....	6.92	0.26	8.47	0.78	.....	.....	(Wheat Starch) Milk to be used with this food.	54122
Robertson's Patent Barley.	9.90	0.90	7.30	0.80	.....	.....	(Barley Starch) Milk to be used with this food.	54123
.....	5.30	0.62	9.67	0.80	14.95	68.66	(Wheat Starch) Milk to be used with this food.	54124
Eskay's Food.	3.00	1.30	6.83	0.91	52.75	35.21	(Arrowroot Starch) Milk to be used with this food.	54125
Over one year in stock...	6.45	0.22	10.02	0.49	3.91	78.91	(Wheat Starch) Milk to be used with this food.	54126

J. C. FERGUSON, INSPECTOR

Robinson's Patent Barley	9.00	0.92	7.22	0.72	.....	.....	((Barley Starch) Milk to be used with this food.	50621
.....	6.70	1.28	11.22	0.57	5.17	75.06	(Barley and Wheat Starches) Milk to be used with this food.	50622
Hedrick's Malted Milk.	3.98	7.70	14.88	3.12	.....	.....	To be used with water or milk as desired.	50623
Allenbury's Milk Food No. 2.	3.92	15.09	9.19	2.00	.....	.....	To be used with water only.	50624
Nestle's Food	1.88	4.92	11.79	1.10	64.85	15.46	(Wheat Starch). To be used with water only.	506251

F. X. W. E. BÉLAND, INSPECTOR.

.....	1.35	5.67	12.12	1.13	.....	.....	(Wheat Starch).. To be used with water only.	37070
.....	2.98	8.08	15.18	3.34	.....	.....	To be used with water or milk as desired.	37071
.....	67.23	0.16	6.83	1.67	21.79	2.32	To be used with water only.	37072
.....	22.35	12.08	3.00	1.37	62.30	.....	Milk to be used with this food for Infants.	37073
.....	3.17	15.83	9.34	3.01	.....	.....	To be used with water only....	37074

DR. Y. P. LAVALLÉE, INSPECTOR.

Peptonine	7.25	0.58	9.65	0.26	29.76	52.60	(Wheat Starch) Milk to be used with this food.	58921
Christie's	5.52	3.02	7.28	0.82	.....	.....	(Wheat Starch). To be used with water only.	58922
Nestle's	2.60	5.40	11.53	1.11	.....	.....	(Wheat Starch). To be used with water only.	58923
.....	2.95	0.10	19.83	3.30	87.42	.....	Milk to be used with this food..	58924

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
June 25	Infants' and Invalids' Food.	58925	Williams, Three Rivers.	1 box	50	Allen & Hanbury, Ltd., London, Eng.	
July 1	"	58941	Isaac Giguère, Louisville.	3 box's	1 20	Wells, Richardson Co., Burlington, Vt.	
" 8	"	58985	Louis Pauzé, L'Assomption.	3 "	90	Christie, Brown Co., Toronto, Ont.	
" 8	"	58936	N. H. Lacasse, L'Assomption.	3 "	50	"	
" 10	"	58987	A. Amirault, L'Epiphanie.	3 "	75	"	
" 10	"	58988	Magnan et Chevalier, Joliette.	3 "	120	Henri Nestle, Vevey, Switz.	

DISTRICT OF EASTERN TOWNSHIPS—

July 14	Infants' and Invalids' Food.	1623	F. Savary, Compton.	3 box's	75	Christie, Brown & Co., Ltd., Toronto, Ont.	
" 15	"	1624	A. E. Hurd, Ayers Cliff.	4 "	54	Horlick's Malted Milk Co., Racine, Wis.	
" 16	"	1625	A. H. Moore & Co., Magog.	3 "	60	McLarens Imperial Cheese Co., Ltd., Toronto.	
" 23	"	1626	J. A. Poulin, Beauce Junction.	3 "	1.50	Henri Nestle, Vevey, Switz.	
Aug. 1	"	1627	La Pharmacie Brodeur, St. Hyacinthe.	3 "	1.50	Fairchild Bros. & Foster, New York.	

DISTRICT OF MONTREAL—

June 23	Infants' and Invalids' Food.	58711	O. Dowler, 300 St. Catherine st., west, Montreal.	3 pkgs	75	Keen Robinson Co., Ltd.	
" "	"	58712	Isidore Gougeon, 368 Dorchester, west, Montreal.	3 "	75	Christie, Brown Co. Ltd., Toronto.	
July 2	"	58713	Ste. Anne de Bellevue Drug Store, St. Anne's.	3 "	1.50	Henry K. Wampole, Perth, Ont.	
" 2	"	58714	Reynolds & Christie, 1295 Wellington st., Verdun.	3 "	75	Maek Smith, Hamilton.	
" 3	"	58715	S. Champagne, Drug Store, Wellington and Church ave., Verdun.	3 "	75	F. Coursoi, 382 City Hall Ave., Montreal.	

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector Report. (Is not an expression of Opinion.)	Results of analysis.						Remarks.	No. of Sample.
	Moisture.	Fat.	Proteins N x 6.25, %.	Ash.	Cold water Extractive.	Starch, etc., by difference.		
<i>Continued.</i>								
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	3.78	16.58	10.17	3.04	..	..	This sample had been transferred from orig. Can to paper box.	58925
Lactated	6.20	0.20	8.42	0.77	32.02	52.39	(Wheat Starch) Milk to be used with this food.	58942
	6.25	2.60	7.28	0.85	..	..	(Wheat Starch) to be used with water only.	58987
	4.58	3.34	6.52	1.36	..	..	(Wheat Starch) to be used with water only.	58986
	5.85	2.98	7.04	1.00	..	..	(Wheat Starch) to be used with water only.	58987
	1.78	5.57	11.43	1.09	..	..	(Wheat Starch) to be used with water only.	58988
J. C. ROULEAU, INSPECTOR.								
Christies.....	5.90	3.28	6.60	0.92	36.42	46.88	(Wheat Starch) to be used with water only.	1623
Malted Milk.....	3.55	8.36	15.64	3.52	..	..	To be used with water or milk as desired.	1624
Peanut Butter .....	..	..	..	..	..	..	..	*1625
Nestles	1.55	5.47	11.33	1.14	..	..	(Wheat Starch) to be used with water only.	1626
Peptogenic Milk Powder	0.65	trace.	0.81	1.11	89.93	7.50	(No Starch) to be used with milk.	1627
D. J. KEARNEY, INSPECTOR.								
Robinson's Patent Barley	9.78	0.96	6.74	0.78	5.18	76.36	(Barley Starch) Milk to be used with this food.	58711
Christies.....	6.20	3.58	6.36	1.05	..	..	(Wheat Starch) To be used with water only.	58712
Milk Food.....	..	..	..	..	..	..	This sample is caked bad and is unfit for use.	*58713
Triticumina.....	8.57	1.08	12.69	0.50	6.19	71.17	(Wheat Starch) Milk to be used with this food.	58714
La Peptoneine.....	7.42	0.56	8.17	0.28	36.34	47.23	(Wheat Starch) Milk to be used with this food.	58715

* Not analyzed.

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BULLETIN No. 278—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913							
July 15	Infants' and Invalids' Food.	58031	J. A. N. Bourassa, Valleyfield.	3 box's	75	.....	.....
" 22	"	58032	J. Boyle, Alexandria....	3 "	75	.....	.....
" 22	"	58033	Brook, Ostrom & Son, Alexandria.	3 "	75	Wellis Richardson Co.	.....
" 26	"	58034	James Fortune, Huntingdon.	3 "	1.50	Nat. D. & C. Co., Ltd.	.....
" 26	"	58035	"	3 "	1.50	.....	.....
DISTRICT OF OTTAWA—							
Nov. 18	Infants' and Invalids' Food.	42900	T. T. Beattie, Ottawa ..	3 pkgs	3 00	Bauer & Co., Berlin, Germany.	.....
June 21	"	59101	W. H. Raney, Prescott....	3 "	1 05	Woolrick & Co., Palmer, Mass.	Unknown
" 21	"	59102	S. E. Mills, Prescott....	3 "	1 50	Bengers' Food, Ltd., Manchester	"
" 23	"	59103	Beattie & Argue, Ottawa	3 "	1 05	The Lacto Globulin Co., Montreal.	Mfrs
July 11	"	59104	D. J. Stalker, Ottawa ...	3 "	1 50	H.K. Wampole Co., Philadelphia, Pa.	"
" 11	"	59105	"	3 "	1 05	W. C. Wagner, Brooklyn, N.Y.	Unknown
DISTRICT OF KINGSTON—							
June 23	Infants' and Invalids' Food.	57329	F. J. Hoag, Kingston ...	3 pkgs	1 50	.....	.....
" 23	"	57330	G. W. Mahood, Kingston	3 "	90	.....	.....
" 23	"	57331	W. W. Gibson, Kingston.	3 "	1 50	.....	.....
" 24	"	57332	T. H. Sargent, Kingston.	3 "	1 50	.....	.....
" 26	"	57333	W. J. Kent, Peterboro...	3 "	1 05	.....	.....
DISTRICT OF TORONTO—							
June 24	Infants' and Invalids' Food.	57411	A. E. Patterson, Allendale.	3 pkgs	90	.....	Unknown
" 24	"	57412	W. C. George, Orillia ...	3 "	1 50	.....	Drug Trading Co., Ltd., Toronto.
" 25	"	57413	D. H. MacLaren, Barrie.	3 "	1 50	.....	Unknown.....
" 27	"	57414	J. E. Willis, Whitby....	2 "	50	.....	" .....
" 27	"	57500	Jury & Lovell, Oshawa...	3 "	30	MacKay Milling Co., Bowmanville	.....

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.
	Moisture.	Fat.	Proteins N x 6.25.	Ash.	Cold water Extractive.	Starch, etc., by difference.		
J. J. COSTIGAN, ACTING INSPECTOR.								
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Christies.....	5.55	3.06	6.98	1.10	36.43	46.89	(Wheat Starch) To be used with water only.	58031
Robinson's Patent Barley	10.20	0.98	6.78	0.72	..	..	(Barley Starch) Milk to be used with this food.	58032
Lactated ..	6.78	0.20	7.96	0.84	..	..	(Wheat Starch) Milk to be used with this food.	58033
Sugar of milk	2.22	..	..	trace.	97.78	..	..	58034
Nestles.	2.34	5.33	12.21	1.11	..	..	(Wheat Starch) To be used with water only.	58035

J. A. RICKEY, INSPECTOR.

Sanatogen	10.28	Trace.	79.30	5.68	..	..	(No Starch.) To be used with water only.	42900
Ridges' Patent Food ..	9.62	0.80	12.59	0.42	3.90	74.67	(Wheat Starch.) Milk to be used with this food.	59101
Bengers.....	8.02	0.34	11.06	0.85	11.85	67.28	" "	59102
Lacto Globulin.	10.35	0.36	71.92	7.98	29.04	..	To be used with water only.	59103
Wampole's Milk Food..	5.22	7.87	12.73	2.22	76.55	..	" "	59104
Nutritium, Wagners..	8.35	3.74	13.76	1.54	23.04	49.57	(Wheat Starch.) To be used with water or milk if desired.	59105

JAS. HOGAN, INSPECTOR.

Nestle's Food.....	2.20	5.42	10.98	1.14	64.70	15.56	(Wheat Starch.) To be used with water only.	57329
Allenbury's Malted Food.	4.45	0.74	9.95	0.80	18.32	65.74	(Wheat Starch.) Milk directed to be used with this food.	57330
Nestle's	2.23	5.18	11.27	1.08	..	..	(Wheat Starch.) To be used with water only.	57331
Horlick's Malted Milk ..	2.68	8.17	14.52	3.34	..	..	To be used with water or milk as desired.	57332
Allenbury's Malted Food	6.07	0.72	10.24	0.87	..	..	(Wheat Starch.) Milk directed to be used with this food.	57333

H. J. DAGER, INSPECTOR.

Robinson's Patent Barley	10.33	0.92	6.57	0.75	..	..	(Barley Starch.) Milk to be used with this food.	57411
Allenbury Milk Food, No. 2.	3.10	16.27	9.56	2.87	67.45	0.75	To be used with water only.	57412
Lactated.....	7.20	0.22	7.13	0.83	29.90	54.72	(Wheat Starch.) Milk to be used with this food.	57413
The Royal Food for Infants.	9.90	0.34	9.65	0.54	5.75	73.82	(Barley Starch.) To be used with water or milk.	57414
Real Mackay Barley Milk.	12.30	1.02	10.36	1.24	7.80	67.28	(Barley Starch.) Milk to be used with this food.	57415

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BULLETIN No. 278--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON--							
1913.							
July 9	Infants and Invalids' Food.	58841	Hawkins, Ltd., 6 Market square, Hamilton.	3 pkgs	75	Triangle Food Co., Hamilton.	
" 9	"	58842	John A. Barr & Co., 68 James st., north, Hamilton.	3 "	1 50	Fairchild Bros., & Foster, New-York.	
" 10	"	58843	T. A. L. Patourel, Brant st., Burlington.	3 "	1 50	Nat. Drug. & Chem. Co., Hamilton.	
" 15	"	58844	R. C. Sexsmith, 240 York st., Hamilton.	3 "	75	Keen Robinson & Co., London, Eng	
" 19	"	58845	Walker, Abbs & Co., St. Catherine's	3 "	75	Christie, Brown & Co., Toronto.	

DISTRICT OF WINDSOR--							
July 3	Infants and Invalids' Food.	54843	M. M. Mitton, Ridgetown.	3 pkgs	1 50	Horlick's Malted Milk Co., Racine, Wis.	
" 3	"	54848	P. Bawden, Ridgetown.	3 "	1 05	Weir Specialty Co., Toronto.	
" 7	"	54850	A. J. McCall & Co., Chatham.	3 "	1 05	Unknown	Unknown
" 7	"	51851	J. G. Clark, Chatham	3 "	1 50	Allen & Hanburys, London, Eng.	
" 7	"	54852	W. W. Turner, Chatham.	3 "	1 50	Henri Nestle, Vevey, Switz.	

DISTRICT OF MANITOBA--							
June 26	Infants and Invalids' Food.	48885	J. N. Sommerville, Wil- liam ave., Winnipeg.	3 pkgs	1 05	J. R. Neave & Co., Fordinbridge, Eng.	
July 2	"	48886	Cannell & Co., Main st., Winnipeg.	3 "	1 20	Glaxo, 88 Grace- church st., Lon- dres, Eng.	
" 2	"	48887	" " "	3 "	1 35	Horlick's Malted Milk Co., Racine, Wis.	
" 2	"	48888	J. R. Robinson, Sher- brooke st., Winnipeg.	3 "	1 20		
" 2	"	48889	E. Nesbitt, Sargent st., Winnipeg.	3 "	1 35	Allen & Hanbury's, Ltd., W. London	

DISTRICT OF ROCKY MOUNTAINS --							
July 3	Infants and Invalids' Food.	49915	C. R. Macdonald, Revel- stoke, B.C.	3 pkgs	1 50	Woolrich & Co., Palmer, Mass.	
" 3	"	49916	" " "	3 "	1 50	Wells, Richardson & Co., Montreal.	
" 3	"	49919	Walter Bews, Revelstoke, B.C.	3 "	3 75	Smith, Klines & French Co., Phi- ladelphia, Pa.	
" 16	"	49921	E. W. Hazlewood, Trail, B. C.	3 "	90	Keen, Robinson & Co., London, Eng	
" 16	"	49923	T. Stout, Rossland,	3 "	1 50	Henri Nestle, Vevey, Switz.	

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector's Report. Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.
	Moisture	Fat.	Proteids N x 6.25.	Ash.	Cold water Extractive.	Starch, etc., by difference		
D. M. CAMERON, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Triangle.....	8.05	1.12	12.69	0.52	7.03	70.59	(Wheat Starch.) Milk to be used with this food.	58841
Peptogenic Milk Powder	0.80	Trace.	0.52	1.10	89.76	7.82	(No Starch.) To be used with milk.	58842
Sugar of Milk.....	1.80	..	..	Trace.	98.20	..	..	58843
Patent Barley	9.60	0.96	6.58	0.75	..	..	(Barley Starch.) Milk to be used with this food.	58844
.....	5.85	2.82	6.94	1.06	.....	.....	(Wheat Starch.) To be used with water only.	58845
JNO. TALBOT, INSPECTOR.								
Horlick's Malted Milk .	2.90	7.77	14.96	2.92	75.10	..	To be used with water or milk as described.	54843
Wematta.....	7.50	0.68	12.32	0.94	4.95	73.61	(Wheat Starch.) To be used with water only.	54848
.....	3.70	1.30	6.65	0.94	53.15	34.17	(Arrowroot Starch.) Milk directed to be used with this food.	54850
Allenbury's Milk Food No. 2.	3.37	16.03	10.04	2.61	..	.....	To be used with water only.....	54851
.....	1.70	5.17	12.18	1.09	.....	.....	(Wheat Starch.) To be used with water only.	54852
A. C. LARIVIERE, INSPECTOR.								
.....	5.90	1.18	11.66	0.57	5.02	75.67	(Barley and Wheat Starches.) Milk to be used with this food.	48885
.....	2.25	25.06	26.51	4.88	43.30	..	To be used with water only....	48886
.....	3.72	8.37	14.79	3.19	..	.....	To be used with water or milk as desired	48887
Nestle's	1.82	5.25	11.90	1.09	..	.....	(Wheat Starch.) To be used with water only.	48888
Allenbury's Milk Food No. 1.	2.72	17.80	10.13	3.45	66.50	..	To be used with water only....	48889
THOS. PARKER, INSPECTOR.								
Dr. Ridge's Patent Food.	9.60	0.88	13.78	0.46	..	.....	(Wheat Starch.) Milk to be used with this food.	49915
Lactated	8.75	0.12	7.72	2.16	..	.....	(Wheat Starch.) Milk to be used with this food.	49916
Eskey's Albumenized...	2.13	1.43	6.34	1.16	..	.....	(Arrowroot Starch.) Milk directed to be used with this food.	49919
Patent Barley	9.50	0.84	7.10	0.68	4.68	77.20	(Barley Starch.) Milk to be used with this food.	49921
Nestle's	1.48	5.47	12.06	1.11	(Wheat Starch.) To be used with water only.	49923

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BULLETIN No. 278—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1913.							
Aug.	9	Infants and Invalids Food.	54921 Harrison's Drug Store, 7th ayenne and Granville, Vancouver.	3 pkgs	75	Canadian Milk Products, Toronto	
"	9	"	54922 Broadway Pharmacy, 3 Broadway and Granville, Vancouver.	3 "	1.50	Horlick's Malted Milk Co., Racine, Wis.	
"	11	"	54923 Campbells, Ltd., Hastings and Granville, Vancouver.	3 "	75	Ridges, Ltd., London, Eng.	
"	11	"	54924 Brown & Dawson, Hastings st., Vancouver.	3 "	1.35	Allen & Hanburys, Ltd., London, Eng.	
"	12	"	54925 Leslie G. Henderson, Georgia and Granville, Vancouver.	3 "	1.50	Nestle's Food Co., Switzerland.	

DISTRICT OF VICTORIA—

July	16	Infants and Invalids Food	57603 F. J. Williams, 613 Fort st., Victoria, B.C.	3 pkgs	75	.....	National Drug & Chemical Co., Victoria, B. C.
"	16	"	57604 F. J. Williams, 613 Fort st., Victoria, B.C.	3 "	1.50	Horlick's Malted Milk Co., Racine, Wis.	
"	16	"	57606 Dean & Hiscocks, Victoria, B.C.	3 "	75	Keen Robinson Co., London, Eng.	
"	16	"	57607 Thos. Shotbolt, 589 Johnson st., Victoria, B.C.	3 "	1.50	Allen & Hanburys, Ltd., London, Eng.	
"	16	"	57608 W. J. Goode, 241 Johnson st., Victoria, B.C.	3 "	75	Keen Robinson & Co., London, Eng.	

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INFANTS AND INVALIDS FOODS.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.						Remarks	No. of Sample.
	Melature.	Fat.	Proteids N x 6.25.	Ash.	Cold Water Extractive.	Starch, etc., by differences		

J. F. POWER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
A perfect split-proteid. modification retaining the anti-scorbutic pro- perties of Fresh Milk.	5.05	8.65	18.27	6.44	68.75	.....	To be used with water only	54921
.....	3.22	7.53	14.09	2.88	75.50	..	To be used with water or milk as desired.	54922
Prevents acidity.....	9.05	1.28	9.57	0.68	4.00	75.42	(Wheat Starch). Milk to be used with this food.	54923
A complete substitute for the mother's milk.	2.88	17.40	10.15	3.63	66.15	.....	To be used with water only....	54924
A perfect nutriment for Infants, Children and Invalids.	1.35	5.53	11.55	1.13	...	...	(Wheat Starch). To be used with water only.	54925

D. O. SULLIVAN, INSPECTOR.

Nestles.....	1.75	5.10	11.79	1.14	.....	.....	(Wheat Starch). To be used with water only.	57603
Hodick's Malted Milk..	2.50	8.37	14.57	3.48	.....	.....	To be used with water or milk as desired.	57604
Robinson's Patent Barley	6.85	7.64	12.38	1.54	17.75	53.84	(Rice Starch) For making gruel.	57605
Allenbury's Milk. Food No. 2.	4.55	15.07	9.30	3.04	69.55	.....	To be used with water only.	57607
Robinson's Patent Barley	9.75	0.86	6.61	0.68	.....	.....	(Barley Starch) Milk to be used with this food.	57608

APPENDIX V

BULLETIN No. 279—FLOUR

OTTAWA, February 24, 1914.

WM HINSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon 139 samples of flour purchased by our inspectors in September and October of last year.

One of the questions sought to be solved by the inspection is the moisture content of flour as ordinarily found on the Canadian market. Many complaints of the ready spoilage of flour have been received. (See Departmental file 104959). Twelve samples were specially enclosed in such a way that they could not lose moisture in transit, or while in storage with us. These samples show an average of 12.92 per cent moisture and three of them contain over 13 per cent. The remainder of the collection was contained in paper bags, and these samples show a pretty uniform content of moisture varying from 9.5 to 10.5 per cent, the average content being close upon 10 per cent.

Standards for flour as published in Circular G. 932, fix 13.5 per cent as a maximum amount of moisture; and only one sample of this collection shows any excess. (No. 59191). There can be no doubt, however, that even this is undesirably high, and is especially high, for shipment in hot weather, or to tropical climes.

Ash is fixed at 1 per cent as a maximum by our standards. Four samples show excess. Two of these are whole wheat flours, and should have been sold as such. The ash is not excessive for this class of flour. The other two contain added phosphates, and one of them appears to contain alum. These are so-called self raising flours.

Two samples show organic nitrogen very slightly below the minimum fixed by standard, viz: 1.25 per cent.

Flours showing as much as two (2) parts per million of nitrite-reacting nitrogen are probably bleached by the use of oxides of nitrogen. Seven samples fall into this class.

When more than two parts nitrite nitrogen per million is found, this is held to be proof of bleaching. Three (3) samples of this collection are to be regarded as bleached. Such samples should have been sold not as "Flour", but as "Bleached Flour".

An extended investigation of bleached flours was made in these laboratories in 1910, and the results are published as Bulletin No. 206. We have no legislation in Canada prohibiting the bleaching of flour; but bleached flour is defined by Order in

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Council of 29th October 1910 : and it is therefore illegal to sell a bleached flour under any other name.

There is nothing to justify declaration of adulteration in any case.

I beg to recommend publication of this report as Bulletin No. 279.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 279.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA							
1913.							
Oct. 13	Flour.	54336	Cain Bros., Yarmouth, N.S.	3 lb.	12	Campbell M. Co., Toronto.	Manufacturers.
" 15	"	54337	Roach & Barteaux, Annapolis, N.S.	3 "	12	Maple Leaf M. Co., Toronto.	"
" 16	"	54338	R. H. Dodge & Co., Kentville, N.S.	3 "	12	Canadian Cereal M. Co., Toronto.	R. E. Harris Wolfville, N.S.
" 16	"	54339	Shand Bros., Windsor, N.S.	3 "	12	Quaker Oats Co., Peterboro.	Manufacturers..
" 16	"	54340	Canada Food Co., Windsor, N.S.	3 "	12	Dominion F. M. Co., Montreal.	"
" 16	"	54341	J. Lynch & Son, Windsor, N.S.	3 "	12	McLeod Milling Co., Stratford.	Jno. Tobin & Co., Halifax, N.S.
" 23	"	54342	Wentzells, Ltd., Halifax, N.S.	3 "	11	Platsville M. Co., Platsville, Ont.	Manufacturers..
" 23	"	54343	A. L. Doyle & Co., Halifax, N.S.	3 "	12	T. H. Taylor Co., Chatham, Ont.	"
" 23	"	54344	Wm. Moore, Halifax, N.S.	3 "	11	McLeod Milling Co., Stratford.	"
" 23	"	54345	Ritcey & Corkum, Halifax, N.S.	3 "	10	T. H. Taylor Co., Chatham, Ont.	"

DISTRICT OF NEW BRUNSWICK

Sept. 25	Flour.	50352	Barkers, Ltd., St. John, N.B.	3 lb.	10	Platsville M. Co., Platsville Ont.	
" 25	"	50353	"	3 "	10	Peterboro Cereal Co., Peterboro.	
Oct. 3	"	50354	J. V. Holland, St. John, N.B.	3 "	12	Canadian Cereal & F. M., Ltd., Toronto.	
" 8	"	50355	P. F. McKenna, Stephen, N.B.	3 "	15	"	
" 14	"	50356	M. E. Doohan, Fredericton, N.B.	3 "	15	Campbell F. M. Co., West Toronto.	
" 15	"	50357	J. M. Fripp, Woodstock, N.B.	3 "	10	Meduxnakeag Mills, J. M. Fripp, Woodstock, N.B.	
" 21	"	50358	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	Ogilvie's, Montreal.	
" 21	"	50359	"	3 "	15	Western Canada F. M., Montreal.	
" 22	"	50360	J. A. Marven, Ltd., Moncton, N.B.	3 "	Nil.	Unknown	Unknown
" 23	"	50361	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	15	S. J. Cherry, Preston, Ont.	

DISTRICT OF QUEBEC

Sept. 23	Flour	56134	J. Pepin, 132 rue Mas- sue, Que.	2 lb.	12	Unknown	Kironack & Fils.
" 4	"	56135	O. Bacon, 28 rue Her- mine, Que.	2 "	7	"	P. T. Busière.
" 6	"	56136	Ph. Boulet, Grant Desprairie, Que.	2 "	...	"	M. A. Lachance
" 26	"	56137	W. Dobie, 31 rue libéré, Que.	2 "	7	"	Begin & Frère.

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FLOUR.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.			Proteid N x 57.	Nitrite react- ing nitrogen.		Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.		Parts per million.	Calculated as Na NO ₂			
R. J. WAUGH, INSPECTOR.									
	p. c.	p. c.	p. c.						
Cream of the wheat...	10.10	0.41	2.02	11.50	None.		In paper bags.	54336	
King's Quality.....	9.82	0.39	2.04	11.62	"		"	54337	
Rainbow.	9.92	0.37	2.03	11.57	"		"	54338	
Victor.	9.52	0.41	1.93	11.00	0.2	1.0	"	54339	
Regal.	9.72	0.36	2.07	11.79	None.		"	54340	
McLeod's Special ...	10.00	0.44	1.96	11.16	"		"	54341	
Swansdown.	9.90	0.44	1.75	9.98	"		"	54342	
Beaver.	9.92	0.51	1.92	10.94	"		"	54343	
McLeod's Special ...	9.75	0.38	1.91	10.89	0.1	0.5	"	54344	
Beaver.	9.90	0.47	2.04	11.62	None		"	54345	

J. C. FERGUSON, INSPECTOR.

Stratheona Blend.	11.25	0.47	1.77	10.08	0.1	0.5	In paper bags.	50352	
Chariot.	9.60	0.39	1.94	11.05	0.2	1.0	"	50353	
Goldies Star.	10.20	0.44	1.76	10.02	None.		"	50354	
Primrose.	9.92	0.41	2.08	11.83	"		"	50355	
Monarch.	9.70	0.46	1.50	8.54	"		"	50356	
Primrose.	9.92	0.60	2.15	12.25	"		"	50357	
Royal Household.	10.10	0.37	2.07	11.79	"		"	50358	
Morwena.	10.00	0.48	1.47	8.37	"		"	50359	
Biscuit.	9.92	0.42	1.46	8.32	"		"	50360	
Jersey Lilly.	10.42	0.41	1.87	11.65	"		"	50361	

F. X. W. E. BÉLAND, INSPECTOR.

.....	10.25	0.43	1.60	9.11	Trace		In paper bags.	56134	
.....	10.05	0.42	1.44	8.20	0.1	0.5	"	56135	
.....	9.87	0.47	1.55	8.83	None.		"	56136	
.....	9.95	0.37	1.43	8.14	"		"	56137	

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BULLETIN No. 279—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1913.							
Sept. 29	Flour	56138	J. A. Talbot, 410 rue de la Reine, Quebec.	2 lb.	7	Unknown	J. B. Renaud & Cie.
" 29	"	56139	Elz. Couture, 124 rue Caron, Quebec.	2 "	6	"	W. Carrier & Fils.
" 29	"	56140	G. H. Turcot, 92 rue Caron.	2 "	7	"	P. T. Busiere & Cie.
" 29	"	56141	Mad. P. Dubuc, 131 rue Charest, Quebec.	2 "	6	"	W. A. Lachance
" 29	"	56142	Emile Jalbert, 16 rue Dorchester.	2 "	8	"	W. A. Lachance
" 29	"	56143	Jas. J. Goslin, 50 rue Dorchester.	2 "	7	"	W. Carrier & Fils.

DISTRICT OF THREE RIVERS—

Sept. 18	Flour	56716	J. O. Davian, Berthier ville.	2 lb.	8	W. Snider, Waterloo, Ont.	.....
" 18	"	56717	A. L. Caisse, Berthier ville.	2 "	8	F. O. Lamarche, Berthierville.	.....
" 19	"	56718	O. Paquette, Berthier ville.	3 "	15	.....	Unknown
" 20	"	56719	J. S. Bayeur, Berthier ville.	3 "	15	.....	Viau et Frère, Montreal.
" 20	"	56720	F. O. Lamarche, Berthierville.	2 "	10	Alex. Brown, M. & E. Co., Toronto.	.....
" 20	"	56721	J. R. Coyle, Berthier ville.	3 "	10	Ogilvie, F. M. Co., Montreal.	.....
" 22	"	56722	J. N. Read, St. Felix de Valois.	2 "	10	Seaforth, M. Co., Ltd. Ont.	.....
" 22	"	56723	Louis Emos, St. Felix de Valois.	2 "	8	Wm. Scott, Ottawa.	.....
" 24	"	56725	Camille Barrette, Joliette.	2 "	6	Alex. Brown, M. & E. Co., Toronto.	.....
" 24	"	56741	Magnan & Frères, Joliette.	2 "	6	Alex. Brown, M. & E. Co., Toronto.	.....

DISTRICT OF EASTERN TOWNSHIPS

Sept. 29	Flour	1718	F. Lavigne, Victoria ville.	2 lb.	6	Canadian Cereal & M., Ltd., Toronto.	F. J. B. Paradis, agent, Victoriaville.
Oct. 2	"	1719	Eus. Huard & Cie., Megantic.	2 "	6	L. of the Woods M. Co., Montreal.	.....
" 3	"	1720	Cookshire Flour Mills Co., Cookshire.	2 "	.....	Vendors.	.....
" 6	"	1721	Dne A. Vaillancourt, Coaticook.	2 "	7	.....	D. S. Bauchaud, Coaticook.
" 7	"	1722	The Daily Grocery Co., Stanstead.	2 "	8	L. of the W. M. Co., Montreal.	J. B. Paradis & Fils, Stanstead.
" 9	"	1723	J. A. Côté, Granby.	2 "	7	Mercure & Frères.
" 9	"	1724	Geo. F. Lebrocy, Waterloo, P.Q.	2 "	7	L. of the W. M. Co., Montreal.

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FLOUR.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.					Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.	Proteids N x 6.25.	Nitrite react- ing Nitrogen. Pts. per million. Calcu- lated as NaNO ₂			
F. X. W. E. BÉLAND, INSPECTOR— <i>Continued.</i>								
.....	9.77	0.48	1.66	9.46	None.	In paper bags	56138	
.....	10.05	0.40	1.41	8.03	"	"	56139	
.....	10.02	0.29	1.73	9.85	"	"	56140	
.....	9.87	0.45	1.47	8.37	"	"	56141	
.....	9.57	0.67	2.2	13.05	"	"	56142	
.....	9.67	0.27	1.68	9.57	"	"	56143	

DR V. P. LAVALLÉE, INSPECTOR.

.....	9.85	0.53	1.80	10.25	None.	In paper bags.	59716	
.....	9.62	0.57	1.64	9.35	"	"	59717	
Crescent self raising flour.	9.60	4.01	1.56	8.88	0.2	1.0	59718	Is a self-raising flour.
.....	9.52	2.67	1.45	8.26	0.1	0.5	59719	" "
.....	9.60	0.48	1.85	10.53	None.	"	59720	
Glenora	9.70	0.53	2.24	12.75	"	"	59721	
.....	9.85	0.44	1.45	8.26	"	"	59722	
Polar Star	9.80	0.56	2.14	12.20	"	"	59723	
.....	9.62	0.56	1.60	9.11	"	"	59725	
.....	9.55	0.51	1.63	9.28	"	"	59741	

J. C. ROULEAU, INSPECTOR.

.....	9.67	0.44	2.14	12.19	None.	In paper bags.	1718	
.....	9.62	0.37	2.35	13.39	"	"	1719	
Graham Flour	9.85	1.42	2.11	12.02	"	"	1720	Whole wheat flour.
.....	10.17	6.46	1.40	8.49	"	"	1721	
.....	10.10	0.40	2.16	12.30	"	"	1722	
.....	9.65	0.29	1.62	9.24	"	"	1723	
.....	9.92	0.36	2.11	12.02	"	"	1724	

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BULLETIN No. 279—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost..		* Name and address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Oct.	9	Flour.....	1725 L. Bergeron, Waterloo, 2 lb .. P.Q.	6	St. Lawrence M. Co., .. Montreal.		
"	10	"	1726 Gosselin et Paradis, Ma- 2 .. gog.	7	Dominion F. M. Ltd.		
"	14	"	1727 S. Rousseau, St. Hyacinthe. 2 ..	...	Vendor.....		

DISTRICT OF MONTREAL—

Oct. 21	Flour.....	58626	F. Dismouchel, 244 21b. ..	12	.....	Brodie & Harvey, Montreal.	
			Church, ave. Verdun.				
" 21	"	58627	J. Bonefant, 425 Church 2 ..	8	.....	
			ave., Verdun.				
" 21	"	58628	P. Brunet, 481 Church 2 ..	8	.....	
			ave., Verdun.				
" 21	"	58629	P. Lajoie, 514 Church 2 ..	8	.....	St. Germain, Montreal.	
			ave., Verdun.				
" 21	"	58630	L. LeBeauce, 143 Church 2 ..	8	.....	Brodie & Harvey, Montreal.	
			ave., Verdun.				
" 21	"	58631	D. Legault, 1220 Well- 2 ..	8	.....	"
			ington st., Verdun.				
" 21	"	58632	N. Gauthier, 1218 Well- 2 ..	8	.....	"
			ington st., Verdun.				
" 21	"	58633	O. Montpetit, 1265 Well- 2 ..	8	.....	Lauvière & frère, Montreal.	
			ington st., Verdun.				
" 31	"	58634	Trudeau et frère, 302 2 ..	9	.....	Brodie & Harvey, Montreal.	
			Charlevoix st., Verdun.				
" 31	"	58635	Taylor & Peacock, 330 2 ..	8	Lake of the Woods, Montreal.		
			Charlevoix st., Verdun.				

DISTRICT OF OTTAWA—

Sept. 23	Flour.....	59191	Renfrew Flour Mills, 3 lb. ..	10	Vendors.		
			Ltd., Pakenham.				
" 30	"	59192	McDonald Bros., ave. 2 ..	8	Ogilvies, Ottawa ..	Manufacturers..	
			Gladstone, Ottawa.				
" 30	"	59193	M. Greenberg, Bank 3 ..	12	Unknown	Dover, Ottawa..	
			st., Ottawa.				
" 30	"	59194	W. D. Ardley, Bank 3 ..	12	Lake of the Woods M. Co., Ottawa.	Manufacturers..	
			st., Ottawa.				
" 30	"	59195	" " 3 ..	12	Canadian Cereal E. Mills Ltd., Ottawa.	"	
" 30	"	59196	" " 3 ..	12	Ont. & Manitoba F. Mills Ltd., Ottawa.	"	
" 30	"	59197	" " 3 ..	12	Maple Leaf Milling Co., Ltd., Ottawa.	"	
" 30	"	59198	" " 3 ..	12	"	"	
" 30	"	59199	" " 3 ..	12	Western Canada F. Mills Co., Ottawa	"	
Oct. 9	"	59211	J. W. McKay, Wellington st., Ottawa. 3 ..	10	Ogilvies, Ottawa ..	"	

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FLOUR.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.	Proteid N x 5.7	Nitrite reacting nitrogen. Pts. per million. Calculated as Na NO ₂ .			

J. C. ROULEAU, INSPECTOR—*Concluded.*

	p. c.	p. c.	p. c.					
.....	10.02	0.38	2.02	11.50	None.	...	In paper bags.	1725
.....	9.95	0.40	2.18	12.45	"	...	"	1726
.....	9.80	0.44	1.83	10.42	"	...	"	1727

D. J. KEARNEY, INSPECTOR.

.....	9.30	0.48	1.43	8.14	0.8	4.0	In paper bags.	58626	Bleached.
.....	9.85	0.63	1.47	8.38	0.4	2.0	"	58627	Probably bleached.
...	9.50	0.47	1.46	8.32	0.4	2.0	"	58628	"
.....	9.52	0.42	1.44	8.20	0.1	0.5	"	58629	
.....	10.17	0.58	1.51	8.60	0.4	2.0	"	58630	Probably bleached.
.....	9.67	0.44	1.48	8.44	0.8	4.0	"	58631	Bleached.
.....	9.55	0.46	1.40	7.97	None.	...	"	58632	
.....	9.82	0.43	1.65	9.40	"	.....	"	58633	
.....	10.09	0.52	1.55	8.84	0.4	2.0	"	58634	Probably bleached.
.....	10.17	0.41	1.50	8.55	0.6	3.0	"	58635	Bleached.

J. A. RICKEY, INSPECTOR.

White Star.	14.12	0.44	1.86	10.60	None.	.....	In tins.	59191	Moisture high.
Glenora	13.42	0.49	1.99	11.35	"	.....	"	59192	
High Loaf.	13.45	0.64	1.99	11.35	"	.....	"	59193	
Five Roses, guaranteed unbleached.	9.67	0.39	2.13	12.12	"	.....	In paper bags.	59194	
Rainbow.	9.52	0.38	2.09	11.91	"	.....	"	59195	
Body Builder.	9.50	0.39	1.99	11.35	"	.....	"	59196	
Castle.	9.47	0.44	2.16	12.30	"	.....	"	59197	
Quality.	9.42	0.38	1.94	11.05	"	.....	"	59198	
Purity, labelled un- bleached.	9.57	0.38	2.02	11.50	"	"	59199	
Royal Household.	9.65	0.34	1.97	11.22	"	"	59211	

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BULLETIN, No. 279—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Sept. 22	Flour.....	60016	C. Rathman, Belleville.	2 lb ..	8	Western Canada,	Goderich.
" 22	"	60017	A. G. Vermilyea, Belleville.	2 " ..	7	C. Smith, Campbell-	ford.
" 22	"	60018	F. O. Diamond, Belleville.	2 " ..	6	Cooper, Belleville	
" 23	"	60019	F. McIntosh, Cobourg.	2 " ..	8	Pratte, Cobourg.	
" 23	"	60020	M. C. Nichols, Cobourg.	2 " ..	7	"	
" 23	"	60021	The Thompson Mac Donald, Cobourg.	2 " ..	10	"	
" 23	"	60022	S. Sleenan, Port Hope.	2 " ..	5	Watkford, Carton.	
" 23	"	60 23	T. H. Brown, Port Hope.	2 " ..	6	Balbraiths, Port Hope.	
" 24	"	60024	P. S. White, Peterboro.	2 " ..	8	R. Denne, Peterboro	
" 24	"	60025	J. R. Bell, Peterboro.	2 " ..	10	Peterboro Cereal Co.	Peterboro,

DISTRICT OF TORONTO—

Sept. 22	Flour.	57511	Cameron & Fowler, 36 Pope ave., Toronto.	2 lb ..	8	The Alex. Brown M. & E. Co., Ltd., Toronto.	
" 22	" ..	57512	C. T. Simpson, 960 Gerard st. east, Toronto.	2 " ..	10	Lake of the Woods M. Co., Ltd., Keewatin.	
" 22	" ..	57513	H. Bracken & Son, 1020 Dundas st., Toronto.	2 " ..	10	Western Flour M. Co., Toronto.	
" 23	" ..	57514	Hammett & Harper, 652 Dufferin st., Toronto.	2 " ..	5	D. W. Reid & Son, Streetsville.	
" 23	" ..	57515	Lake of the Woods Co. Ltd., 224 Dupont st. Toronto.	2 " ..	5	Vendors.	
" 23	" ..	57516	Maple Leaf Milling Co. Ltd., 200 Board of Trade Bldg., Toronto.	2 " ..	5	"	
" 23	" ..	57517	Canadian Cereal Flour Mills, Ltd., 285 Howland ave., Toronto.	2 " ..	5	"	
" 23	" ..	57518	John Williamson, 514 Bloor st. West, Toronto.	2 " ..	13	"	The Campbell F. M. Co., Ltd., Toronto.
" 24	" ..	57519	A. Brock, 52 Arthur st., Toronto.	2 " ..	5	Ogilvie M. Co., Ltd., Montreal.	
" 24	" ..	57520	The Alex. Brown M. E. Co., Ltd., Esplanade st., Toronto.	2 " ..	7	Vendors.	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Container	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.	Proteid N x 5.7.	Nitrite react- ing Nitrogen.	Pts. per million. Calcu- lated as Na NO ₂ .			
JAS. HOGAN, INSPECTOR.	p. c.	p. c.	p. c.						
.....	9.25	0.37	2.03	11.56	None.		In paper bags.	60016	
.....	9.17	0.46	1.74	9.91	"		"	60017	
.....	8.92	0.44	1.40	7.97	"		"	60018	
.....	9.30	0.38	2.14	12.20	"		"	60019	
.....	9.32	0.43	1.35	7.69	"		"	60020	
.....	9.37	0.42	1.35	7.69	"		"	60021	
.....	9.37	0.41	1.21	6.89	"		"	60022	Nitrogen low.
.....	9.12	0.40	1.35	7.69	"		"	60023	
.....	9.32	0.44	1.19	6.78	"		"	60024	Nitrogen low.
.....	9.30	0.45	1.41	8.03	0.1	0.5	"	60025	

H. J. DAGER, INSPECTOR.

White Rose	9.65	0.48	1.49	8.49	None.		In paper bags	57511	
Five Roses, ...	9.50	0.34	2.17	12.37	"		"	57512	
Crown	9.72	0.44	1.55	8.23	"		"	57513	
.....	9.37	0.48	2.12	12.09	"		"	57514	
Harvest Queen, ...	9.20	0.43	2.31	13.17	"	.....	"	57515	
King's Quality	9.22	0.37	2.11	12.02	"		"	57516	
Rainbow,	10.37	0.36	1.97	11.23	0.1	0.5	"	57517	
Monarch,	9.15	0.43	1.45	8.26	None.		"	57518	
Royal Household, ...	9.60	0.34	1.96	11.18	"		"	57519	
Osgoode,	9.47	0.37	1.53	8.72	0.4	2.0	"	57520	Probably bleached

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1913.							
Oct.	2 Flour...	50845	S. Sinons, 67 Colborne st., Brantford.	2 lb ..	6	R. A. Thompson, Brantford.	
"	2 " ..	50846	" ..	2 " ..	5	" ..	
"	2 " ..	50847	George Cooper, 135 Market st., Brantford.	2 " ..	5	Wood Bros., Brantford.	
"	2 " ..	50848	W. D. Davidson, 259 St. Paul st., St. Catharines	2 " ..	10	Maple Leaf Co., Ltd.	
"	2 " ..	50849	" ..	2 " ..	10	Canadian Cereal Co.	
"	2 " ..	50850	" ..	2 " ..	10	" ..	
"	2 " ..	50851	" ..	2 " ..	10	Caledonia M. Co....	
"	2 " ..	50852	Henry & Glozkin, Church st., St. Catharines.	2 " ..	8	J. K. Black.....	
"	2 " ..	50853	" ..	2 " ..	8	Maple Leaf M. Co., Ltd.	
"	2 " ..	50854	F. R. Hall, 97 Geneva st., St. Catharines.	2 " ..	8	Jameson Black & Son	

DISTRICT OF WINDSOR

Oct.	8 Flour	54401	J. C. Bell, Petrolia ..	3 jars.	6	D. Lambert & Sons, Oil Springs.	
"	8 " ..	54402	" ..	3 " ..	6	N. H. Stevens, (Kent Mills), Chatham.	
"	8 " ..	54403	" ..	3 " ..	6	Ogilvie Co	
"	8 " ..	54404	" ..	3 " ..	6	Canadian Cereal & M. Co., Tillsonburg	
"	13 " ..	5488	Jas. Twitchen, London.	3 " ..	8	" ..	J. Schoenhalas, Clinton.
"	13 " ..	54890	" ..	3 " ..	8	Arva Roller M. Co., Arva, Ont.	
"	13 " ..	54891	" ..	3 " ..	8	Lucan Milling Co., Lucan, Ont.	
"	13 " ..	54892	Reid & Marshall. . .	3 " ..	8	Empire Milling Co., St. Thomas	
"	13 " ..	54893	" ..	3 " ..	8	Lake of the Woods M. Co., Keewatin	

DISTRICT OF MANITOBA—

Sept.	30 Flour.	48976	The Ogilvie F. M. Co., Ltd., Winnipeg.	2 lb ..	Nil	Vendors ..	
Oct.	2 " ..	48977	Western Canada F. M. Co., Ltd., St. Boniface.	3 " ..	"	" ..	
"	8 " ..	48978	C. E. Bragg, Elmwood P. O.	3 " ..	30	Lake of the Woods Milling Co., Ltd., Keewatin.	
"	8 " ..	48979	J. Paterson, Elmwood P. O.	3 " ..	25	Leitch, Oak Lake.	
"	8 " ..	48980	" ..	3 " ..	25	Ogilvie F. M. Co., Ltd., Winnipeg.	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report, (Is not an expression of Opinion).	Results of Analysis.						Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture	Ash.	Nitrogen.	Proteid N x 5.7.	Nitrite reacting nitrogen.					
					Pts. per million.	Calculated as Na NO ₂				
J. J. COSTIGAN, ACTING INSPECTOR.										
	p. c.	p. c.	p. c.							
Astor.	9.77	0.48	1.86	11.60	None.		In paper bags.	50845		
Delight	9.75	0.53	1.80	11.25	"		"	50846		
.	9.62	0.43	1.40	7.97	0.4	2.0	"	50847	Probably bleached.	
King's Quality.	9.95	0.41	2.07	11.79	None.		"	50848		
Rainbow	9.52	0.34	2.11	12.02	"		"	50849		
Robinhood.	9.95	0.38	1.98	11.28	"		"	50850		
Bridal Veil.	9.87	0.45	1.64	9.35	"		"	50851		
Herald.	9.42	0.44	1.86	11.60	"		"	50852		
Perfection.	10.02	0.45	1.91	11.88	"		"	50853		
.	9.75	0.42	1.86	11.60	"		"	50854		

JOHN TALBOT, INSPECTOR.

Gold Dust.	12.70	0.44	1.80	10.26	None.		In glass jars	54401	
Kent Mills.	12.80	0.42	1.72	9.80	"		"	54402	
Royal Household.	12.67	0.35	2.00	11.40	"		"	54403	
Rainbow.	12.75	0.35	1.95	11.12	"		"	54404	
Maple Leaf.	12.77	0.45	1.95	11.12	0.1	0.5	"	54889	
Daisy.	12.75	0.40	1.67	9.52	None.		"	54890	
Delight.	12.52	0.26	1.80	10.26	"		"	54891	
Sunbeam	12.40	0.33	1.76	10.02	0.4	2.0	"	54892	Probably bleached.
Five Roses.	12.70	0.36	2.03	11.58	None.		"	54893	

A. C. LARIVIÈRE, INSPECTOR.

.	9.77	0.38	1.95	11.10	None.		In paper bags.	48976	
.	10.25	0.36	1.98	11.28	"		"	48977	
.	10.17	0.39	2.12	12.07	"		"	48978	
Anchor.	9.90	0.45	2.17	12.36	Trace.		"	48979	
.	9.65	0.35	2.07	11.79	None.		"	48980	

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BULLETIN No. 279—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1913.

Oct. 24	Flour.	4881	T. Brown & Co., Peguina ave., Winnipeg	3 lb.	30	Western Canada F. M. Co., Ltd.	
" 24	"	4882	"	3 "	30	Ogilvie F. M. Co., Winnipeg.	
" 27	"	4883	Western Canada F. M. Co., Brandon.	3 "	Nil.	Vendors.....	
" 27	"	4884	The Maple Leaf M. Co., Brandon.	3 "	"	"	
" 28	"	4890	Francis Bros., Norwood grove.	3 "	30	Western Canada F. M. Co.	

DISTRICT OF ROCKY MOUNTAINS—

Oct. 2	Flour	49955	Bell Trading Co., Nelson, B.C.	3 lb.	25	Ogilvie M. Co., Winnipeg.	
" 2	"	49956	"	3 "	25	Lake of the Woods M. Co., Winnipeg.	
" 2	"	49957	"	3 "	25	Maple Leaf M. Co., Toronto.	
" 2	"	49958	"	3 "	25	Western Canada F. M. Co., Winnipeg.	
" 2	"	49959	"	3 "	25	Robinhood M. Co., Calgary.	
" 2	"	49960	"	3 "	25	Brackman Ker M. Co., Calgary.	
" 17	"	49982	Trites Wood Co., Fernie, B.C.	3 "	25	Medicine Hat M. Co., Medicine Hat.	
" 17	"	49983	"	3 "	25	Robinhood M. Co., Calgary.	
Nov. 3	"	49992	Union Co-op. Assoc., Rossland.	3 "	25	"	
" 3	"	49993	"	3 "	25	Centennial Mills, Spokane, Wash.	

DISTRICT OF VICTORIA

Oct. 29	Flour	57672	Windsor Grocery Co., 517 Govt. st., Victoria, B.C.	3 lb.	12½	Royal Standard M. Co., Vancouver, B.C.	
" 29	"	57673	"	3 "	12½	The Portland F. M. Co., Albany, Oc.	
" 29	"	57677	The West End Grocery Co., Ltd., 1002 Govt. Victoria, B.C.	3 "	20	Vancouver M. & Grain Co., Ltd., Vancouver, B.C.	
" 29	"	57681	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	3 "	15	Ogilvie F. M. Co., Medicine Hat.	
Nov. 5	"	57685	H. O. Kukham, Fort st., Victoria, B.C.	3 "	15	Vancouver M. & Grain Co., Ltd., Vancouver, B.C.	

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FLOUR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.	Proteid N, x 5.7.	Nitrite react- ing Nitrogen.			
					Pts. per million. Calculated as Na NO ₂			

A. C. LARIVIERE, INSPECTOR—*Concluded.*

	p. c.	p. c.	p. c.				
.....	9.82	0.39	2.02	11.50	None	In paper bags.	48981
...	9.95	0.37	2.03	11.56	"	"	48982
.....	9.27	0.48	2.34	13.32	"	"	48983
.....	9.25	0.40	2.34	13.32	"	"	48984
.....	9.80	0.40	2.04	11.62	Trace	"	48990

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.				
Royal Household.	11.10	0.36	2.00	11.40	None	In paper bag	49955
Five Roses.	10.90	0.41	2.04	11.62	"	"	49956
King's Quality.	9.75	0.45	1.84	10.48	"	"	49957
Purity.	10.25	0.36	1.97	11.22	"	"	49958
Robinhood.	9.90	0.38	2.07	11.79	"	"	49959
Bread.	10.05	0.40	1.98	11.28	0.1	0.5	49960
Prairie Pride.	10.02	0.45	2.12	12.07	0.1	0.5	49982
Harvest Queen.	10.20	0.36	2.24	12.77	None	"	49983
Seal of Alberta.	10.05	0.42	2.05	11.68	0.2	1.0	49992
Gold Drop.	9.52	0.41	1.62	9.21	None	"	49993

D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.				
Hungaria.	9.72	0.32	1.97	11.22	None	In paper bags.	57672
Snow Flake.	10.45	0.50	1.41	8.03	"	"	57673
Wild Rose.	9.27	0.44	1.54	8.77	0.2	1.0	57677
Royal Household.	9.50	0.41	1.69	9.62	None	"	57681
Royal Standard.	9.85	0.36	2.26	12.89	"	"	57688

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.	Proteid N x 5.7	Nitrite reac- ing nitrogen.			
					Pts. per million. Calculat- ed as Na NO ₂			

D. O'SULLIVAN, INSPECTOR—*Concluded.*

	p. c.	p. c.	p. c.						
Bread	10.37	0.40	2.10	11.98	0.2	1.0	In paper bags.	57689	
Manitoba Hard Wheat	9.91	0.41	2.18	12.42	None		"	57693	
B. & K. Graham Flour.	9.95	1.53	2.09	11.91	"		"	57694	Whole wheat flour.
B. & K. Bread	10.40	0.38	2.00	11.40	0.2	1.0	"	57695	
Purity	10.62	0.38	2.02	11.51	None		"	57696	

APPENDIX W.

BULLETIN No. 280—TEMPERANCE BEVERAGES OR SOFT DRINKS.

OTTAWA, February 26, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report upon the examination of 150 samples sold as soft drinks (non-alcoholic or temperance beverages) during the months of September and October last. The specific names under which these were offered for sale are as follows:—

	Samples.
Ginger Ale.	45
Ginger Beer.	14
Lemon Sour.	20
Cream Soda.	23
Iron Brew.	7
Champagne Cider.	13
Strawberry Soda.	6
Sarsaparilla.	5
Noxi-Cola.	1
Cherry Cider.	1
Raspberry.	1
Winco.	1
Lime Juice and Soda.	1
Orange Phosphate.	1
Grape Smash.	1
Root Beer.	1
Raspberryade.	1
Lagerine.	1
Table Waters.	7
Total.	150

Three samples were lost by breakage in carriage.

Of the seven samples classed as Table Waters, five (5) are sold as Soda Water, and these contain total dissolved solids as follows:—

Soda Water, No. 60051, solids per cent.	0.060
“ “ 54417 “	0.020
“ “ 54427 “	0.020
“ “ 48948 “	0.140
“ “ 49967 “	0.060

I am not aware that any authoritative definition of the term Soda Water exists. Doubtless the artificial waters so-called are intended to be taken as imitations of the naturally effervescent alkaline waters for which Ems, Vichy, and other places are celebrated. The Vichy Water contains about 0.700 per cent solids, chiefly bi-carbonate of soda. It is evident that the above samples bear no sort of resemblance to the Vichy

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Water; and the amount of contained Soda is so small that they would be much more correctly described as Carbonated Water, as their impregnation with carbonic acid gas under pressure is their only special characteristic.

The remaining two samples are ordinary table waters of good quality.

Of the great majority of these samples of soft drinks it may be said that they are essentially solutions of sugar in varying amounts (from 1 to 10 per cent) flavoured with various essences or fruit flavours (mainly artificial) and impregnated with carbon dioxide (carbonic acid gas) under pressure.

All attempts to find a specific character for Ginger Ale, Ginger Beer, Lemon Sour, &c., from the numerical results of analysis, fails utterly. These beverages are evidently prepared according to no generally accepted formula, but depend for their character upon the fancy of the manufacturer. It cannot be said that they are harmful; and so long as they meet a popular demand for a sweetened effervescent drink, no objection to them can be taken.

The presence of salicylic acid, to prevent fermentation of the sugar, is noted in thirteen (13) samples; but the amount is not excessive in any case. Saccharin (used as a partial substitute for sugar) is found in thirty-four (34) samples. Objection has been taken to this article as a sweetener by the United States of America (*see* Food Inspection Decision No. 142, of March, 1912), but the evidence of its harmfulness does not appear to be convincing. Under Food Inspection Decision No. 146, of July, 1912, the United States of America permits its presence in certain classes of food, but requires a declaration of the presence of Saccharin on the label. This precaution, and the restriction of its amount, to such a quantity as shall prevent the ingestion of more than 0.30 gramme daily is all that seems to be necessary in the light of our present knowledge of the physiological effects of saccharin. The careful investigation made by the Referee Board of the U.S.A., and reported Jan. 13, 1912, revealed that amounts of Saccharin up to 0.30 gramme daily, had no deleterious or poisonous action, and were not injurious to health.

Of course, Saccharin must not be used to take the place of sugar in a food in which sugar is a necessary ingredient. But I am not aware that any legal definitions of these temperance drinks prescribe sugar as a necessary ingredient; or that the public desires anything more than sweetness without regard to the sweetening material, so long as this is harmless to health.

It would, however, seem proper to require that whenever a new article is used to effect a result which has long been associated with the presence of sugar, the fact that such substitution has been made should be declared on the label. The words 'Sweetened (wholly or partially) with Saccharin,' should, I think, appear upon these labels, when Saccharin is present.

Alcohol, in more than traces, is absent from all but five samples; and in only three of these does it exceed two (2) per cent by volume, the legal limit for non-alcoholic beverages. (G. 947).

Samples sold under the same name have been put together in subsidiary tables, under the captions 'Ginger Ale, Ginger Beer, Lemon Sour, &c.' but a study of the articles so named fails to reveal any such homogeneity among those classed together as could warrant a definition of the classes in any but the most general way.

I beg to recommend publication of this report as Bulletin No. 280.

I have the honour to be, Sir,
Your obedient servant.

A. MCGILL,
Chief Analyst.

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BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.							
Oct. 13	Cream Soda...	54316	Burns Grocery, Yarmouth, N.S.	3 bots.	20	J. Pink & Co., Yarmouth, N.S.	Mfrs.
" 13	Jersey Cream.	54317	" " " "	3 "	20	J. W. Graut & Co., Yarmouth, N.S.	"
" 24	Ginger Ale...	54318	F. J. Quinn, Halifax, N.S.	3 "	20	Vendor .....	.....
" 24	Jersey Cream.	54319	Whelan & Ferguson, Halifax, N.S.	3 "	20	Vendors .....	.....
" 24	Strawberry Soda.	54320	Jas. Rowe, Halifax, N.S.	3 "	20	Vendor .....	.....
" 24	Grape Smash..	54321	W. H. Donovan, Halifax, N.S.	3 "	20	" .....	.....
" 27	Lemon Sour..	54322	Biglow & Hood, Truro, N.S.	3 "	20	Vendors .....	.....
" 27	" " "	54323	V. Pitkavitch, Truro, N.S.	3 "	30	F. Drak, New Glasgow, N.S.	Mfr
" 28	Apple Tart	54324	H. C. Burns, Lunenburg, N.S.	3 "	25	Pearn & Boulton, Sussex, N.B.	Mfrs.
" 28	Wineo	54325	A. Sodero, Lunenburg, N.S.	3 "	31	Kempton Bros., Milton, N.S.	"

DISTRICT OF NEW BRUNSWICK—

Sept. 24	Lemon Soda...	50367	Ready's Breweries, Ltd., St. John, N.B.	3 bots.	20	Vendors .....	.....
" 24	Ginger Ale...	50368	" " " "	3 "	20	" .....	.....
" 24	Sarsaparilla...	50369	" " " "	3 "	20	" .....	.....
" 29	Ginger Ale.	50370	W. A. Simonds, St. John, N.B.	3 "	24	Sussex Beverage Co., Sussex, N.B.	.....
Oct. 3	Iron Brew....	50371	W. B. Daley, St. John, N.B.	3 "	15	Vendor. ....	.....
" 8	Strawberry....	50372	F. H. Tyrrell, St. Stephen, N.B.	3 "	15	" .....	.....
" 14	Jersey Cream.	50373	A. H. Wood, Fredericton, N.B.	3 "	20	" .....	.....
" 21	Iron Brew....	50374	Sussex Mineral Springs, Ltd., Sussex, N.B.	3 "	60	Vendors. ....	.....
" 22	Ginger Ale...	50375	Havelock's Mineral Springs Co., Moncton, N.B.	3 "	Nil.	"
" 23	Lime Juice Soda.	50376	Charles Cassidy, Chatham, N.B.	3 "	45	Vendor

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SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grammes per 100 cc.						Alcohol by Volume.			
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.				

R. J. WAUGH, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.				
...	9.91	5.00	4.10	9.10	0.81	0.090	0.20	None.	None.	...	54316
...	10.10	7.88	2.00	9.88	0.22	0.262	0.33	"	"	...	54317
...	6.45	1.38	4.54	5.92	0.53	0.412	0.20	"	"	...	54318
...	7.26	4.24	2.28	6.52	0.74	0.135	0.20	"	"	...	54319
...	11.56	5.04	5.14	10.19	1.37	0.142	0.20	"	"	Artificial flavour.	54320
...	9.34	6.48	2.39	8.85	0.47	0.13	0.18	"	"	...	54321
...	7.44	3.45	3.59	7.04	0.40	0.175	0.46	"	"	...	54322
...	3.44	3.10	0.10	3.20	0.24	0.224	0.90	"	Salicylic acid.	...	54323
...	14.14	6.88	5.69	12.57	1.57	0.240	0.46	"	"	Artificial flavour.	54324
...	10.00	5.25	4.00	9.25	0.84	0.20	0.187	"	None.	...	54325

J. C. FERGUSON, INSPECTOR.

...	8.18	4.42	2.80	7.22	0.96	0.210	0.40	None.	None.	...	50367
...	10.22	3.18	6.22	9.40	0.82	0.200	0.20	"	"	...	50368
...	10.48	5.50	3.64	9.24	1.24	0.105	0.26	"	"	...	50369
...	11.00	3.38	6.93	10.31	0.69	0.210	0.00	Pre-sent.	Salicylic acid.	...	50370
...	8.45	1.62	5.52	7.14	1.31	0.165	0.26	None.	None.	...	50371
...	...	...	...	...	...	...	...	...	...	...	*50372
...	11.14	6.80	3.04	9.84	1.30	0.173	0.26	None.	None.	...	50373
...	12.64	1.18	9.48	10.66	1.98	0.202	0.20	"	"	...	50374
...	7.12	1.61	5.15	6.76	0.36	0.172	0.26	"	Salicylic acid.	...	50375
...	4.78	4.06	0.60	4.66	0.12	0.28	0.33	"	None.	...	50376

* Broken in transit.

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BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1913.							
Sept. 22	Soft Drinks.	56149	George Jobin, 390 rue Joseph, Quebec.	St. 3 bots.	30	F. A. Fleuet, Quebec.	
" 22	"	56150	Edouard Boileau, 836 St. Valier, Quebec.	rue 3 "	25	Timmons & Son, Quebec.	
" 22	"	56151	Jos. Vaillancourt, 358 St. Joseph, Quebec.	rue 3 "	30	Bedard & Dion, Quebec.	
" 23	"	56152	G. Pepin, 132 rue Massue, Quebec.	3 "	37	Elzéar Fortier, Quebec.	
" 23	"	56153	" " "	3 "	37	Edouard Coulombe, Quebec.	
" 23	"	56154	" " "	3 "	22	Elzéar Fortier & Co., Quebec.	
" 23	"	56155	" " "	3 "	22	" " "	
" 23	"	56156	" " "	3 "	22	" " "	
" 24	"	56157	O. Bacon, 28 rue Hermine, Quebec.	3 "	20	F. A. Fleuet, Quebec.	
" 24	"	56158	" " "	3 "	20	" " "	

DISTRICT OF THREE RIVERS—

Sept. 19	Ginger Ale.	59731	A. S. Caisse, Berthierville.	3 bots.	30	J. Christian & Co., Montreal.	
" 19	Ginger Beer	59732	O. Paquette, Berthierville.	3 "	45	" " "	
" 19	Cider	59733	J. A. Laporte, Berthierville.	3 "	25	" " "	
" 22	Ginger Ale....	59734	George Gouin, St. Felix de Valois.	3 "	15	Vendor.....	
" 22	Soda Water...	59735	" " "	3 "	15	" " "	
" 22	Ginger Ale....	59736	Oct. Rainville, St. Felix de Valois.	3 "	15	Geo. Gouin, St. Felix de Valois.	
" 22	Soda Water...	59737	" " "	3 "	15	" " "	
" 22	Ginger Ale....	59738	Ludger Duperrault, St. Felix de Valois.	3 "	30	" " "	Goulet & Frere Montreal.
" 22	Soda Water...	59739	" " "	3 "	30	A. D. Lapierre, Joliette.	
" 22	Cider.....	59751	" " "	3 "	45	" " "	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Grammes per 100 cc.					Alcohol by Volume.	Saccharin.				Preservatives.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.						

F. X. W. E. BÉLAND, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.				
...	7.23	2.37	4.28	6.65	0.58	0.075	0.07	None.	None.	...	56149
...	4.99	3.90	0.52	4.42	0.57	0.247	0.33	Present.	"	...	56150
...	4.68	3.28	1.32	4.60	0.08	0.190	0.20	"	"	...	56151
...	9.60	5.00	3.70	8.70	0.90	0.142	0.20	None.	"	Artificial flavour.	56152
...	5.37	4.20	1.02	4.22	0.15	0.202	0.33	"	"	"	56153
...	10.46	3.42	5.92	9.34	1.12	0.045	0.20	"	"	...	56154
...	7.18	1.44	4.50	5.94	1.24	0.410	0.20	"	"	...	56155
...	8.74	2.34	4.11	6.95	1.79	0.120	0.26	"	"	...	56156
...	7.72	2.61	3.95	6.56	1.16	0.105	0.20	"	"	...	56157
...	7.07	0.88	5.45	6.33	0.74	0.161	0.06	"	"	...	56158

DR V. P. LAVALLÉE, INSPECTOR.

...	7.64	3.28	3.86	7.14	0.50	0.210	0.33	Present.	None.	...	59731
...	6.28	4.18	1.42	5.60	0.68	0.150	0.26	None.	"	Artificial flavour.	59732
...	5.46	2.42	2.25	4.67	0.79	0.502	0.20	"	Salicylic acid.	"	59733
...	4.58	0.75	3.16	3.91	0.67	0.225	0.20	Present.	None.	...	59734
...	4.80	2.32	2.10	4.42	0.47	0.052	0.46	"	"	...	59735
...	4.88	0.93	3.42	4.35	0.55	0.240	0.26	"	"	...	59736
...	5.18	1.14	3.37	4.51	0.67	0.060	0.33	None.	"	...	59737
...	3.38	2.70	0.65	3.35	0.03	0.112	0.33	Present.	"	...	59738
...	5.01	0.73	3.61	4.34	0.67	trace	0.46	None.	"	...	59739
...	5.16	4.08	0.61	4.69	0.46	0.065	0.60	"	"	Artificial flavour.	59751

5 GEORGE V., A. 1915
BULLETIN No. 280—

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1913.							
Sept. 29	Cream Soda...	1735	J. M. Brunette, Victoria ville.	3 bots.	25	Vendors	
" 30	"	1736	J. E. Jeannette, Richmond E.	3 "	25	"	
Oct. 2	Ginger Ale...	1737	Alp. Moisan, Megantic...	3 "	30	"	
" 3	Lemon Sour...	1738	J. H. Bryant, Sherbrooke	3 "	"	"	
" 3	Raspberry	1739	D. M. McMahon, Sherbrooke.	3 "	"	"	
" 6	Strawberry...	1740	J. H. Poloquin, Coaticook	3 "	20	"	
" 9	Raspberry.....	1741	F. B. Perkins, Waterloo	3 "	"	"	
" 9	Noxi-Kola	1742	" " "	3 "	"	"	
" 9	Champagne Cider.	1743	H. Torand, Waterloo	3 "	"	"	
" 31	"	1744	F. Orsali & Cie, St-Hyacinthe.	3 "	15	"	

DISTRICT OF MONTREAL—

Oct. 21	Ginger Ale...	58636	D. Legault, 1320 Wellington st., Verdun.	3 bots.	24	J. Christin & Co., Montreal.	
" 21	"	58637	N. Gauthier, 1218 Wellington st., Verdun.	3 "	24	Stewart Bottling Co., Montreal.	
" 21	Strawberry...	58638	O. Montpetit, 1265 Wellington st., Verdun.	3 "	24	J. Christin & Co., Montreal.	
" 31	Ginger Ale...	58639	Trudeau Frère, 302 Charlevoix st., Verdun.	3 "	24	Stewart Bottling Co., Montreal.	
" 4	Cream Soda...	58640	Taylor and Peacock, 330 Charlevoix st., Verdun.	3 "	15	Chas. Gurd & Co., Montreal.	
Nov. 4	Lemon Sour...	58641	N. Lalonde, 364 Charlevoix st., Verdun.	"	24	E. F. Kelly, Montreal.	
" 4	Ginger Ale...	58642	H. Harel, 361 Charlevoix st., Verdun.	"	24	Rowan Bros., Montreal.	
" 4	Champagne Cider.	58643	A. Rathé, 555 Grand Trunk st., Verdun.	"	24	Millars, Montreal.	
" 4	Cream Soda...	58644	E. Valade, 230 Chateauguay st., Verdun.	"	21	H. Girouard & Co., Montreal.	
" 4	Champagne Cider.	58645	H. Piché, 628 Centre st., Verdun.	"	24	La Reuna Bottling Co., Montreal.	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Results of Analysis.										Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Inspector's Report. (Is not an expression of opinion).	Grammes per 100 cc.											
Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservative.				

J. C. ROULEAU, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
9.62	1.37	7.04	8.41	1.21	0.052	0.33	None	None		1755
7.18	0.26	6.60	6.86	0.32	0.015	0.20	"	"		1736
8.23	0.42	6.72	7.14	1.09	0.075	0.33	"	"		1737
9.58	4.37	4.15	8.52	1.06	0.224	0.40	"	Salicylic Acid.		1738
7.89	3.25	3.64	6.89	1.00	0.33	0.150	Present	None	Artificial flavour.	1739
4.80	0.61	3.10	3.71	1.09	0.045	0.33	"	"	"	1740
6.64	2.66	3.80	6.46	0.18	0.090	0.33	"	"	"	1741
4.96	4.07	None	4.07	0.89	0.07	0.180	None	"	"	1742
10.78	5.16	4.20	9.36	1.42	0.240	0.33	Present	"	Artificial flavour.	1743
8.24	4.80	2.07	6.87	0.37	0.432	0.33	None	"	"	1744

D. J. KEARNEY, INSPECTOR.

7.64	4.92	2.55	7.47	0.17	0.105	0.20	None	None	Artificial Flavour.	58636
4.22	0.62	3.32	3.94	0.23	0.300	0.26	Present	"	"	58637
7.12	3.38	3.32	6.70	0.42	0.067	0.33	None	Salicylic Acid.	Artificial flavour.	58638
5.60	0.57	4.54	5.11	0.49	0.262	0.20	Present	None	"	58639
7.11	0.45	5.51	5.96	1.15	0.098	0.33	None	"	"	58640
6.18	2.45	3.05	5.50	0.68	0.172	0.13	"	Salicylic Acid.	"	58641
5.50	1.15	3.12	4.27	1.23	0.067	0.40	"	"	"	58642
5.98	3.65	1.42	5.07	0.91	0.232	0.60	Present	None	Artificial flavour.	58643
4.63	4.00	0.40	4.40	0.23	0.075	0.07	"	"	"	58644
4.58	2.62	1.72	4.34	0.24	0.065	0.33	"	"	Artificial flavour.	58645

5 GEORGE V., A. 1915

BULLETIN No. 280—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1913.							
Nov.	12	Ginger Ale...	58661 John McDonald, River 3 bts	30	C. Robillard et Co., Montreal.		
	12	Ginger Ale...	58662 M. Beauchamp, River 3 "	45	1,000 Island Mineral Water Co., Brockville.		
	20	Ginger Ale...	58663 P. J. Pulos, Valleyfield... 3 "	25	T. Sanial, Valleyfield.		
	20	Cream Soda...	58664 N. Boutin, Valleyfield... 3 "	30	"		
	20	Ginger Beer...	58665 Salaberry Hotel, Valleyfield... 3 "	25	"		
	21	Cream Soda...	58666 Geo. Greff, Coteau Landing... 3 "	30	"		
	21	Ginger Ale...	58667 J. E. Lalonde, St. Zotique 3 "	30	Goulet Bros., Montreal.		
	21	Ginger Ale...	58668 E. Poirier, Coteau Landing... 3 "	60	Pilgrim M. W. Co., Brockville.		
	21	Lemon Sour...	58669 O. Besner, Coteau Landing 3 "	60	F. N. Pilgrim, Brockville.		
	21	Ginger Ale...	58670 Chas. Jasmin, Coteau Landing... 3 "	30	T. Sanial, Valleyfield.		

DISTRICT OF OTTAWA—

Oct.	3	Ginger Ale...	59201 J. J. McLaughlin, Lyon st., Ottawa.	3 bts	16	Vendors...	
	3	Lemon Soda...	59202 " " " 3 "	16	"		
	3	Cream Soda...	59203 " " " 3 "	16	"		
	3	Ginger Ale...	59204 Morel Bros., Bay st., Ottawa.	3 "	25	"	
	3	Champagne Cider.	59205 Eng. Mirault, Rideau st., Ottawa.	3 "	16	Vendor.	
	3	Iron Tonic...	59206 " " " 3 "	16	"		
	3	Ginger Ale...	59207 " " " 3 "	16	"		
	3	Ginger Ale...	59208 J. R. Shaw, Besserer st., Ottawa.	3 "	16	"	
	3	Lemon Sour...	59209 " " " 3 "	16	"		
	3	Ginger Ale...	59210 A. L. Pinard & Sons, Rideau st., Ottawa.	3 "	16	Pilgrim's M. W. Co., Aylmer, P.Q.	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Grammes per 100 cc.					Alcohol by Volume.	Saccharin				Preservatives.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.						

D. J. KEARNEY, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.					
...	4.22	1.26	2.90	4.16	0.06	0.120	0.07	None.	None.	...	58661
...	4.10	1.78	1.95	3.77	0.33	0.090	0.29	"	"	...	58662
...	5.94	3.85	1.75	5.69	0.34	0.097	0.40	"	"	...	58663
...	7.94	1.71	5.24	6.95	0.99	0.038	0.13	Pre- sent.	"	...	58664
...	6.18	3.44	2.45	5.93	0.25	0.09	0.40	"	"	...	58665
...	7.16	0.54	5.90	6.44	0.72	0.045	0.20	None	"	...	58666
...	4.34	2.15	1.16	3.91	0.43	0.165	0.20	"	"	...	58667
...	3.52	1.74	1.65	3.39	0.13	0.103	0.20	Pre- sent	"	...	58668
...	3.06	2.83	0.10	2.90	0.16	0.165	0.33	None	"	...	58669
...	5.70	0.92	3.96	4.88	0.82	3.070	0.33	"	"	...	58670

J. A. RICKEY, INSPECTOR

...	9.09	3.09	5.72	8.81	0.2	0.214	0.33	None	None	...	59201
...	9.08	2.51	5.92	8.43	0.65	0.182	0.20	"	"	...	59202
...	9.41	2.84	5.78	8.58	0.8	0.060	0.26	"	"	...	59203
...	5.16	0.65	4.03	4.68	0.48	0.352	0.20	Pre- sent.	"	...	59204
...	4.43	3.98	None	3.94	0.50	0.180	0.40	None.	"	Artificial flavour.	59205
...	4.40	1.80	1.92	3.72	1.08	0.067	0.26	"	"	...	59206
...	2.82	1.84	0.71	2.55	0.27	0.045	0.20	Pre- sent.	"	...	59207
...	4.78	0.56	3.59	4.15	0.63	0.337	0.26	"	"	...	59208
...	4.45	1.00	3.26	4.26	0.19	0.168	0.20	None	"	...	59209
...	4.22	2.46	1.63	4.09	0.13	0.180	0.20	Pre- sent.	"	...	59210

5 GEORGE V., A. 1915
BULLETIN No. 280—

Date of Collection	Nature of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
			Quantity.	Cent.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—						
1913.						
Sept. 18	Ginger Ale	60046 S. V. Horne, Kingston	3 bots.	10	Vendor	
" 18	Lemon Sour	60047 " "	3 "	10	"	
" 18	Soda Water	60048 " "	3 "	10	"	
" 18	Ginger Beer	60049 " "	3 "	10	"	
	18 Ginger Ale	60050 J. M. Parland, Kingston	3 "	35	Guel. Co., Mont-real.	
	18 Soda Water	60051 J. Gordon, Kingston	3 "	30	"	
"	18 Ginger Beer	60052 Geo. Thompson, Kingston	3 "	30	Vendor	
"	18 Lemon Sour	60053 " "	3 "	45	"	
"	18 Ginger Ale	60054 " "	3 "	30	"	
" 18	Lemon Sour	60055 E. Beupre, Kingston	3 "	45	"	
DISTRICT OF TORONTO—						
Sept. 17	Apple Cider	57474 G. Farnan, 11 Caer How-ell st., Toronto.	3 bots.	15	Vendor	
" 17	Cherry Cider	57475 Toronto Soda Water Co., Toronto.	3 "	20	Vendors	
" 17	Sarsaparilla	57476 Dom. Soda Water Mfg. Co., 24 Walton st., Toronto.	3 "	15	"	
" 17	Cream Soda	57477 Chas. Wilson, Ltd., 517 Sherbourne st., Toronto.	3 "	25	"	
" 18	Iron Tonic	57478 Petersons, Ltd., 194 Front st., Toronto.	3 "	16	"	
" 18	Lemon Sour	57479 Ont. Soda Water Mfg. Co., 209½ McCaul st., Toronto	3 "	15	"	
" 18	Ginger Ale	57480 The Union Soda Water Mfg. Co., 30 William st., Toronto.	3 "	15	"	
" 18	Concentrated Lemonade	57481 Dalton Bros., 11 Front st. East, Toronto.	3 "	30	"	
" 19	Jersey Cream	57482 L. A. Kirkland, 36 Dundas st., Toronto.	3 "	35	Vendor	
" 19	Ginger Beer	57483 The Mineral Springs, Ltd., 349 Front st. East, Toronto.	3 "	36	Vendors	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis							Remarks and Opinion of the Chief Analyst.	
	Grammes per 100 cc.					Alcohol by Volume.	Saccharin.		Preservatives.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.				
					Fixed Acidity as Tartaric Acid.				No. of Sample.

JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.				
	7.65	0.95	5.97	6.92	0.73	0.160	0.40	None.	None.		60046
	6.56	1.49	4.60	6.09	0.47	0.063	0.40	Pre-sent.	"		60047
	4.70	2.25	1.83	4.08	0.62	0.060	0.46	None.	"		60048
	5.00	2.00	1.80	3.80	1.10	0.300	2.86	"	"		60049
	8.40	1.34	6.24	7.58	0.82	0.210	0.40	Pre-sent.	"		60050
	0.060	...	...	...	...	...	...	...	...	Bases present, sodium and calcium.	60051
	7.00	2.23	4.08	6.31	0.69	0.157	0.20	None.	None.		60052
	6.65	2.94	3.50	6.44	0.21	0.119	0.40	"	"		60053
	6.79	1.37	5.00	6.37	0.42	0.232	0.33	"	"		60054
	6.00	0.95	1.46	5.41	0.59	0.060	0.46	"	"		60055

H. J. DAGER, INSPECTOR.

	10.50	4.69	4.19	8.88	1.62	0.105	0.24	None.	None.	Artificial flavour.	57474
	6.92	0.97	5.60	6.57	0.35	0.08	0.120	"	"		57475
	5.85	2.96	2.15	5.11	0.74	0.210	0.20	"	"		57476
Quality first.	10.90	4.82	4.77	9.59	1.31	0.235	0.13	"	"		57477
Genuine flavour.	6.90	3.70	2.43	6.13	0.77	0.128	0.20	"	"		57478
	4.53	1.53	2.76	4.29	0.24	0.075	0.33	Pre-sent.	"		57479
	4.75	1.15	3.22	4.37	0.38	0.060	0.33	None.	"		57480
A pure lemon product contains no other acid.	48.70	36.58	5.90	42.48	6.22	*4.09	0.99	"	"		57481
	7.35	5.00	1.78	6.78	0.57	0.120	0.13	"	"		57482
Yorksprings	5.92	2.54	3.15	5.69	0.23	0.285	2.62	"	"		57483

* The acid was isolated and identified as citric acid, and estimated as citric acid (4.09 gms. per 100cc.)

5 GEORGE V., A. 1915

BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Sept. 30	Orange Phosphate.	50870	Sutherlands, Ltd., York st., Hamilton, Ont.	3 bots.	25	Vendors.	
" 30	Lemon Sour .	50871	" " " . . .	3 " "	25	" " " " " "	
" 30	Ginger Ale...	50872	" " " . . .	3 " "	20	" " " " " "	
" 30	Sarsaparilla. . .	50873	" " " . . .	3 " "	25	" " " " " "	
" 30	Lagerine	50874	William Bolus, 412 York st., Hamilton, Ont.	3 " "	30	The Kuntz Brewery, Ltd.	
" 30	Ginger Ale . . .	50875	C. Katzemire, 105 John st., Hamilton, Ont.	3 " "	35	Cumner & Son, Hamilton.	
" 30	Sarsaparilla. . .	50876	Geo. O. Elder, 121 McGregor st., Hamilton, Ont.	3 " "	30	" " " " " "	
" 30	Lemon Sour . . .	50877	Louis Eeonople, 2 Merrick st., Hamilton, Ont.	3 " "	20	" " " " " "	
" 30	Lemon Sour . . .	50878	E. Fanman, 44 ¹ / ₂ York st., Hamilton, Ont.	3 " "	30	Vendor.	
" 30	Ginger Ale...	50879	" " " . . .	3 " "	30	" " " " " "	
DISTRICT OF WINDSOR—							
Oct.	9 Ginger Ale..	54416	D. Donaldson, Sarnia....	3 bots.	45	Sharp & Kirkpatrick, Sarnia.	
"	9 Soda Water . .	54417	" " "	3 " "	30	Gummer & Son, Hamilton.	
"	9 Sanitaris Water.	54418	" " "	3 " "	40	Sanitaris Ltd., Arnprior, Ont.	
"	9 Ginger Beer..	54419	" " "	3 " "	40	" " " " " "	
"	9 Ginger Ale...	54420	" " "	3 " "	40	Goderich M. W. Co., Goderich, Ont.	
"	9 Mineral Water	54423	C. H. Pugh, Sarnia....	3 " "	25	Saugeen M. W. Co., Southampton.	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and of the Opinion Chief Analyst.
	Grammes per 100 cc.						Alcohol by Volume.			
	Total Solids.	Invert Sugar.	Sucrose.	Sugar.	Undetermined Sugar.	Fixed Acidity as Tartaric Acid.				

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
.....	7.48	5.14	2.18	7.32	0.16	0.20	0.165	None.	Salicylic acid.	.....	50870
.....	8.12	3.52	3.6	7.17	0.95	0.103	0.07	"	None	.....	50871
.....	6.31	0.82	5.08	5.90	0.41	0.100	0.25	"	"	.....	50872
.....	8.82	2.01	6.40	8.41	0.41	0.33	0.065	"	Salicylic acid.	.....	50873
.....	4.46	.....	.....	.....	.....	.....	1.34	.....	.....	Proof spirit 2.34.	50874
.....	1.88	0.60	1.22	1.82	0.08	0.150	0.20	Present.	None.	.....	50875
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*50876
.....	1.78	0.38	1.20	1.58	0.20	0.098	0.26	None.	None.	.....	50877
.....	9.96	2.06	6.84	8.90	1.05	0.063	0.07	"	"	.....	50878
.....	9.54	1.68	7.85	9.53	0.01	0.178	0.20	"	"	.....	50879

JNO. TALBOT, INSPECTOR.

.....	4.77	1.53	2.61	4.19	0.55	0.270	0.20	None.	None.	.....	54416
Club Soda	0.020	.....	.....	.....	.....	.....	.....	.....	.....	Bases present, sodium and calcium.	54417
The Monarch of Mineral Water.	0.483	.....	.....	.....	.....	.....	.....	.....	.....	Magnesium and Potassium, sodium and calcium.	54418
Crested.....	10.00	3.35	5.47	8.82	1.18	0.127	0.33	None.	None.	.....	54419
Sparkling Dry.	5.57	1.42	3.02	4.44	1.13	0.165	0.26	"	"	.....	54420
Saugeen Natural Mineral Water.	0.310	Bases. Ca. Mg., Na and K, acid radicals SO ₄ and Cl. traces of CO ₂ .	54423

* Broken in transit.

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BULLETIN No. 280—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1913.							
Oct.	9	Ginger Ale..	54424 C. H. Pugh, Sarnia ..	3	bots.	35	Hamilton M. W. Co., Hamilton.
"	9	Ginger Ale..	54425 " "	3	"	30	Mineral Spring Co., Toronto.
"	9	Ginger Ale...	54426 " "	3	"	25	C. H. Tunc, London.
"	9	Soda Water..	54427 " "	3	"	30	Gummer & Sons, Hamilton.

DISTRICT OF MANITOBA—

Sept.	26	Ginger Beer ..	48946 Pelissier & Sons, Winni-	3	bots.	Nil.	Vendors.....
"	26	Ginger Ale...	48947 " " peg.	3	"	"	"
"	27	Crystal Soda..	48948 E. L. Drewery, Winnipeg	3	"	"	Vendor.
"	27	Ginger Beer ..	48949 " "	3	"	"	"
"	29	Ginger Ale..	48950 Blackwood, Ltd., Winni-	3	"	"	Vendors ..
"	29	Ginger Beer...	48951 " " peg.	3	"	"	"
"	29	Lemonade....	48952 " "	3	"	"	"
"	29	Cream Soda ..	48953 The American Soda Water Co., 358-360 Flora st., Winnipeg.	3	"	15	"
Oct.	27	Ginger Beer ..	48954 The Empire Brewing Co., Brandon.	3	"	"	"
"	27	Ginger Ale...	48955 The Brandon Brewing Co., Brandon.	3	"	"	"

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SOFT DRINKS.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grammes per 100 cc.						Alcohol by Volume.			
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.		Saccharin.	Preservatives.	

Concluded.

	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	Pre- sent.	None.		
Imperial Bel- fast Ginger Ale.	1.70	0.52	1.12	1.64	0.06	0.102	0.13	Pre- sent.	None.	.....	54424
York Springs Dry Ginger Ale.	5.61	1.49	3.56	5.05	0.56	0.075	0.13	None.	"	.....	54425
London Dry Ginger Ale.	7.48	2.85	2.55	5.40	2.08	0.255	0.20	"	"	.....	54426
Club Soda ..	0.026	.....	.....	.....	.....	.....	.....	.....	.....	Bases pre- sent, sod- ium and calcium.	54427

A. C. LARIVIÈRE, INSPECTOR.

Beaver Brand.	4.76	1.00	2.26	3.26	1.50	0.105	0.46	Pre- sent.	None.	.....	48946
	3.30	1.07	2.15	3.30	0.00	0.105	0.20	"	"	.....	48947
The Golden Key Brand.	0.140	.....	.....	.....	.....	.....	.....	.....	.....	Bases pre- sent, sodium and Calcium	48948
"	5.70	4.70	0.90	5.60	0.10	0.277	4.71	None.	Sali- cyclic acid.	.....	48949 Alcohol above 2%.
"	8.13	1.20	6.71	7.91	0.22	0.322	0.26	"	None.	.....	48950
"	7.96	1.04	6.70	7.74	0.22	0.270	0.33	"	"	.....	48951
"	7.12	1.22	5.38	6.60	0.52	0.084	0.07	"	"	.....	48952
"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*48953
"	8.13	0.44	5.78	6.22	1.91	0.045	0.40	None.	Sali- cyclic acid.	48954
"	10.44	1.38	7.66	9.04	1.40	0.240	0.33	"	None.	48955

* Broken in transit.

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BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS

1913.							
Oct.	3 Ginger Ale...	49963	Thorpe & Co., Nelson, B.C.	3 bots.	40	Vendors.....	
"	3 Iron Brew....	49964	" "	3 "	40	"	
"	3 Cream Soda...	49965	" "	3 "	40	"	
"	3 Sarsaparilla...	49966	" "	3 "	"	"	
"	3 Soda Water...	49967	" "	3 "	25	"	
"	17 Iron Brew...	49971	Jas. Wood, Fernie, B.C.	3 "	30	Fernie Fort Steele By. Co., Fernie, B.C.	
"	17 Ginger Ale...	49972	" "	3 "	30	" "	
"	17 Ginger Beer...	49973	" "	3 "	30	" "	
"	17 Strawberry Soda...	49974	" "	3 "	30	" "	
"	17 Cream Soda...	49975	" "	3 "	30	" "	

DISTRICT OF VICTORIA—

Oct.	7 Ginger Ale...	57649	H. A. Lilley, 1417 Douglas st., Victoria, B. C.	3 bots.	30	Thorpe & Co., Ltd. Victoria, B. C.	
"	7 " "	57650	" "	3 "	15	C. Marleys, Vic- toria, B. C.	
"	7 Lime Juice and Soda...	57652	V. Paul, 611 Johnston, st., Victoria, B. C.	3 "	15	Kirk & Co., Ltd., Victoria, B. C.	
"	15 Iron Brew....	57654	John Balma, 812 Yates, st., Victoria, B. C.	3 "	15	Regal Mineral Water Co., Vic- toria, B. C.	
"	18 Root Beer....	57665	K. Peppas, Cook and North Park, st., Victoria, B. C.	3 "	15	Kirk & Co., Ltd., Victoria, B. C.	
"	18 Lemonade....	57666	" "	3 "	15	" "	
"	18 Ginger Beer..	57667	" "	3 "	30	" "	
"	18 Lemonade....	57668	" "	3 "	15	Royal Mineral Water Co., Vic- toria, B. C.	
"	21 Ginger Ale...	57670	W. Stamatarous, 620 Yates, st., Victoria, B. C.	3 "	15	Thorpe & Co., Ltd., Victoria, B. C.	
"	21 Raspberryade.	57671	" "	3 "	15	" "	

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SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grammes per 100 cc.						Alcohol by Volume.			
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.				

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.				
...	7.49	2.83	4.40	7.23	0.26	0.157	0.33	None	None	...	49963
...	9.71	3.92	4.53	8.45	1.26	0.150	0.26	"	"	...	49964
...	6.52	3.63	2.21	5.84	0.68	0.165	0.07	"	"	...	49965
...	7.16	5.00	2.00	7.00	0.16	0.20	0.20	"	"	...	49966
...	0.060	...	...	...	...	...	...	...	...	Bases present, sodium & Calcium.	49967
...	7.22	1.01	5.76	6.77	0.45	0.157	0.60	None	None	...	49971
...	9.00	1.78	6.07	7.85	1.15	0.375	0.20	Present.	"	...	49972
...	9.42	4.87	3.38	8.25	1.17	0.125	0.20	None	"	...	49973
...	6.98	1.91	4.91	6.82	0.16	0.060	0.20	"	"	...	49974
...	7.13	1.01	5.76	6.77	0.36	0.038	0.33	"	"	...	49975

D. O'SULLIVAN, INSPECTOR.

Ye. old fashioned Ginger Ale.	6.58	2.59	2.33	4.92	1.66	0.315	1.13	None	None	...	57649
...	5.86	3.75	1.75	5.50	0.36	0.225	0.33	Present.	"	...	57650
...	5.80	4.66	0.40	5.06	0.74	0.20	0.045	None	"	...	57652
...	5.46	1.88	3.20	5.08	0.38	0.202	0.07	"	"	...	57654
...	5.93	1.27	3.63	5.00	0.93	0.20	0.045	"	"	...	57665
...	4.78	2.46	1.25	3.71	1.07	0.203	0.33	"	"	...	57666
Old English	3.41	2.12	0.45	2.58	0.83	0.352	0.86	"	"	...	57667
...	5.18	1.41	3.70	5.11	0.07	0.112	0.46	Present.	"	...	57668
...	3.70	2.05	1.49	3.54	0.16	0.210	0.20	None	"	...	57670
...	3.75	2.10	1.58	3.68	0.07	0.150	0.20	"	"	Artificial Flavour.	57671

APPENDIX X

BULLETIN No. 281—BUTTER

OTTAWA, March 17, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report upon 340 samples of butter collected throughout Canada by our inspectors during the months of November and December of 1913 and January of this year. To this is added as an appendix a report of 26 samples collected in March 1913, in the district of Quebec, for the special purpose of ascertaining whether oleo-margarine was being offered in these markets, as was asserted by some parties who claimed to knowledge in the matter. It was under the especial guidance of these parties that the market was examined; and it is satisfactory to find that all samples obtained were found to be genuine.

Butter is legally defined, by Order in Council of 3rd November 1910, as the clean non-rancid product made by gathering, in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents with or without salt, and contains not less than eighty-two and five tenths (82.5) per cent milk fat, and not more than (16) sixteen per cent of water. Butter may also contain added colouring matter of harmless character.

The sum of minimum legal fat and maximum legal water in butter is 98.5 per cent of its weight; whence it appears that in a butter containing a maximum amount of permissible water, the salt, curd, lactose, albumens and other milk constituents, traces of which are always present in butter, are in the aggregate amount limited to one and one half (1.5) per cent. If it be desired to introduce more than about one per cent of salt into butter, this must be done by cutting down the water content; and as a matter of fact, it is rare to find 16 per cent of water in butter. Only five samples of the present collection exhibit more than 16 per cent of water, namely:—

Samples No.	Water p.c.	Fat p.c.	Salt p.c.
56192	16.75	78.69	4.56
59291	16.44	83.47	0.09
53247	20.28	76.68	3.04
53250	16.48	80.84	2.78
51821	16.94	81.47	1.59

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And the butter fat is necessarily low in all of these samples which contain appreciable amounts of salt. No. 59291 contains only traces of salt, and the butter-fat is quite satisfactory.

The fat content is, of course, the most important datum in judging butter, and is that which determines the cost of butter production. It may be reduced by addition of excessive salt or water. For this reason, a limit is placed upon the percentage of water which may be present in legal butter; and although no definite limit is placed upon the salt content, it is evident that the numerical requirements for fat and water effectively determine a limit of about 7 per cent. For the normal content of water in good butter is about ten per cent while the curd and other milk components, always present in traces usually aggregate about one half of one per cent. When butter contains above 7 per cent of salt it is not only unsatisfactory to the taste on this account, but is usually low in butter fat.

When water is present in considerable excess, it is usual for some portion of it to separate on standing; and even when not in excessive amount, water may separate to the extent of one or two per cent. This water was sold and presumably weighed with the butter, and should in strict justice to the purchaser, be reckoned as part of his purchase. In the present instance, I have granted the vendor whatever advantage such moiety of water may give him; but this must not be regarded establishing a precedent for such action.

No foreign fats have been found in any of these samples.

The following synopsis shows the results of this inspection :—

	Samples.
Found genuine	316
Passed as within reasonable and explicable limits of error.	18
Adulterated for excess of water, or for notable deficiency in butter fat	6
Samples reported in appendix	26
Total	366

I beg to recommend publication of this report as Bulletin No. 281.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Dec. 15	Butter.....	53813	D. C. Mulhall, Liverpool, N.S.	2 lbs.	66	Unknown...	Jno. Tobin & Co., Halifax, N.S.
1914.							
Jan. 27	"	53814	Jas. A. Leaman & Co., Halifax, N.S.	2 "	76	Brookfield Creamery Co., Brookfield, N.S.	Manufacturers.
" 27	"	53815	P. T. Shea, Halifax, N.S.	2 "	70	Crapaud Creamery Co., Crapaud, P.E.I.	"
" 27	"	53816	Rooney & Lovett, Halifax, N.S.	2 "	66	F. W. Foster, Kingston, N.S.	Manufacturer.
" 27	"	53817	Wentzells, Ltd., Halifax, N.S.	2 "	70	Acadia Creamery Co., Kingston, N.S.	Manufacturers.
" 27	"	53818	F. S. Burns & Co., Halifax, N.S.	2 "	68	Illsley Bros., Berwick, N.S.	"
" 27	"	53819	Geo. Hirschfeld, Halifax, N.S.	2 "	70	Unknown	A. Patterson, Patterson Sid- ing, N.S.
" 27	"	53820	I. E. Sanford, Halifax, N.S.	2 "	70	"	Olive & Stroud Montreal
" 27	"	53821	F. S. Short, Halifax, N.S.	2 "	70	"	Smith & Proctor, Halifax, N.S.
" 28	"	53822	R. B. Calwell, Halifax, N.S.	2 "	60	"	A. Rockwell, Kings Co., N.S.
" 28	"	53823	Linton & McLeod, Halifax, N.S.	2 "	64	"	C. H. Crowe, Montrose, Col- chester Co., N.S.
" 28	"	53824	B. H. Dodge & Co., Kentville, N.S.	2 "	56	L. Cogswell, Belcher st., Kings Co., N.S.	Manufacturer
" 29	"	53825	Wentworth Stores, Windsor, N.S.	2 "	70	Mrs. A. Clark, Clarksville, N.S.	"
" 29	"	53826	John Lynch & Son, Windsor, N.S.	2 "	70	Unknown	S. T. Jefferson, Lawrencetown, N.S.
" 30	"	53827	A. D. Bruce, Halifax, N.S.	2 "	66	"	Banks & Williams, Halifax, N.S.
" 30	"	53828	Estate of H. W. Brown, Halifax, N.S.	2 "	70	"	P. T. Shea, Halifax, N.S.
" 30	"	53829	S. Thomson, Dartmouth, N.S.	2 "	64	"	F. J. Holman, Ch'town, P.E.I.
" 30	"	53830	Colin McNab & Co., Dartmouth, N.S.	2 "	70	J. C. Welton, North Kingston, N.S.	Manufacturer.
" 30	"	53831	A. W. Huxtable, Dartmouth, N.S.	2 "	68	A. C. Bates, Musquodoboit, N.S.	"
" 30	"	53832	Coleman & Eisner, Dartmouth, N.S.	2 "	70	Unknown	Smith & Proctor, Halifax, N.S.

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BUTTER.

Results of Analysis.								Remarks and Opinion of the Chief Analyst.	
Inspector's Report. (Is not an expression of opinion).	Water.			Ash.	Butyro-refra- ctometer at 40°C.	Reichert Me- ssel No.	Fat by Differ- ence.		No. of Sample.
	Separat- ed.	Incorpor- ated.	Total.						

R. J. WAUGH, INSPECTOR

	p. c.	p. c.	p. c.	p. c.		p. c.	
Canadian Tub	0.25	9.18	9.43	2.56	42.6	88.26	53813 Genuine.
Creamery Flat.	0.75	9.20	9.95	2.90	43.0	87.90	53814 "
" Block	0.75	12.25	13.00	3.25	42.4	84.50	53815 "
Dairy	0.25	11.88	12.13	2.68	42.0	85.44	53816 "
Creamery Flat	1.50	12.02	13.52	2.80	41.6	85.18	53817 "
" "Scotia" Br. d.	0.25	13.00	13.25	2.26	42.0	84.74	53818 "
Dairy	1.00	11.68	12.68	3.70	41.6	84.62	53819 "
Block Creamery.		11.16	11.16	3.76	43.4	85.08	53820 "
Dairy Block	0.25	12.68	12.93	2.40	42.4	84.92	53821 "
" Print	1.25	8.32	9.57	6.42	41.4	85.26	53822 "
" Tub.		7.97	7.97	6.35	44.0	85.68	53823 "
"		10.16	10.16	3.55	41.0	86.29	53824 "
"	0.25	10.02	10.27	4.80	43.2	85.18	53825 "
" Print.	2.00	12.00	14.00	5.60	42.0	82.40	53826 "
"	0.25	10.70	10.95	8.00	43.2	81.30	53827 Deficiency of fat, due to excess of salt. Pass.
"		10.18	10.18	1.97	41.2	87.85	53828 Genuine.
"	0.50	10.92	11.42	7.36	42.0	81.72	53829 Deficiency of fat, due to excess of salt. Pass.
"	1.00	12.62	13.62	0.94	42.6	86.44	53830 Genuine.
"	0.50	10.50	11.00	1.92	43.8	86.58	53831 "
"	1.00	9.95	10.95	2.58	45.2	87.47	53832 "

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BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1913.							
Nov 26	Butter	59313	R. H. Cother, St. John, N.B.	2 lbs.	74	Vendor.	
" 26	"	59314	W. H. Bell, St. John, N.B.	2 "	74	"	
Dec 8	"	59315	M. E. Grass, St. John, N.B.	2 "	66		Matthews, Laing Co., Toronto, Ont.
" 8	"	59316	Harry G. McBeath, St. John, N.B.	2 "	64		G. E. Barbour Co., Ltd., St. John, N.B.
" 8	"	59317	Vanwart Bros., St. John, N.B.	2 "	76	Sussex Cheese & Butter Co., Sussex, N.B.	
" 9	"	59318	W. Fenwick, St. John, N.B.	2 "	60	Farmers' Trading Harvey York Co., N.B.	
" 9	"	59319	W. C. Broadbent, St. John, N.B.	2 "	74	Farmers' Dairy & Produce Co., St. John, N.B.	
" 12	"	59320	P. Nase & Son, St. John, N.B.	2 "	70	Amos Hood, Maguadairie, York Co., N.B.	
" 12	"	59321	W. H. Dunham, St. John, N.B.	2 "	70		Jones & Schofield, St. John, N.B.
" 12	"	59322	W. J. Dalton, St. John, N.B.	2 "	64		Puddington, Wetmore, Morrison Ltd., St. John, N.B.
" 17	"	59323	P. J. McKenna, St. Stephen, N.B.	2 "	68	David Scott, St. James, Charlotte N.B.	
1914.							
Jan. 6	"	59324	John McCluskey, Fredericton, N.B.	2 "	70	Matthew-Laing Co., Toronto, Ont.	
" 6	"	59325	E. J. Hoben, Fredericton, N.B.	2 "	70	Unknown.	Unknown.
" 7	"	59326	E. A. Binden, Woodstock, N.B.	2 "	65	Geo. Sharp, Pembroke, Carleton Co., N.B.	
" 7	"	59327	Watson & True, Woodstock, N.B.	2 "	64	Geo. McLeod, Farmerston, Carleton Co., N.B.	
" 8	"	59328	B. Beveridge, Andover, N.B.	2 "	70	W. W. Wilson & Co., Centreville, Carleton Co., N.B.	
" 13	"	59329	Sussex Mercantile Co., Sussex, N.B.	2 "	64	Unknown.	Unknown.
" 14	"	59330	H. T. Brewster, Moncton, N.B.	2 "	64	Mrs. Arthur Steeves, Coverdale, Albert Co., N.B.	
" 14	"	59331	Mrs. P. White, Moncton, N.B.	2 "	70	Pure Milk Co., Moncton, N.B.	
" 16	"	59332	J. B. Snowball Co., Ltd., Chatham, N.B.	2 "	70	Maritime Dairy Co., Ltd., Sussex, N.B.	

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BUTTER.

Inspector's Report, (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refrac- tometer at 40°c.	Reichert Meissl No.	Fat by Differ- ence.		
	Separ- ated.	Incorpor- ated.	Total.						

J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			p. c.		
Creamery Prints.....	11.70	11.70	5.00	43.2	...	83.30	59313	Genuine.	
"	1.00	10.90	11.90	3.41	43.2	...	85.66	59314	"
Tub.....	8.88	8.88	2.37	43.4	..	88.75	59315	"	
Dairy Tub.....	7.91	7.91	5.95	44.5	29.8	86.14	59316	"	
* Creamery Prints.....	1.00	9.23	10.23	2.27	43.2	...	88.50	59317	"
Country "	10.36	10.36	3.02	45.4	23.6	86.62	59318	"	
Creamery.....	2.00	7.93	9.93	2.68	43.8	..	89.39	59319	"
Dairy Prints.....	11.00	11.00	2.42	44.0	.....	86.58	59320	"	
Creamery Tub.....	4.30	12.11	16.41	2.19	45.0	28.1	84.70	59321	"
Dairy Tub.....	6.52	6.52	2.25	43.9	.....	91.23	59322	"	
Dairy Prints.....	4.10	12.50	16.60	4.60	43.4	..	82.90	59323	"
Dairy Prints, ("Anchor" Brand).	9.70	9.70	1.43	44.2	.....	88.87	59324	"	
Country Prints.....	1.00	10.80	11.80	4.33	42.4	.....	84.87	59325	"
"	9.20	8.37	8.57	3.84	43.1	.....	87.79	59326	"
Choice Dairy.....	10.02	10.02	2.52	41.6	.....	87.43	59327	"	
Country Prints.....	0.50	10.10	10.60	4.08	43.2	.....	85.82	59328	"
Dairy.....	10.77	10.77	2.01	45.4	22.3	87.22	59329	"	
" Farm.....	1.00	9.25	10.25	5.70	42.0	.....	85.05	59330	"
Creamery.....	2.00	10.88	12.88	2.08	42.4	.....	87.04	59331	"
"	10.05	10.05	2.94	43.8	..	87.01	59332	"	

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1913.							
Nov. 25	Butter.	56186	Eugène Lacasse, 48 rue St. Ambroise, Quebec.	2 lbs..	68	Unknown.	Emond & Côté.
" 25	"	56187	J. B. Lapointe, 59 rue St. Ambroise, Quebec.	2 "	64	"	" ..
" 25	"	56188	N. Côté, 79 rue St. Ambroise, Quebec.	2 "	64	"	J. B. Renaud & Cie.
" 26	"	56189	C. Bédard, 588½ rue François, Quebec.	2 "	70	"	" ..
" 26	"	56190	Eudore Delisle, 2ue ave Tachereau, Quebec.	2 "	64	"	Octave Jacques
" 26	"	56191	J. P. Gagnon, 109 rue St. Ambroise, Quebec.	2 "	60	"	Emond & Côté.
" 26	"	56192	J. P. Gagnon, 109 rue St. Ambroise, Québec.	2 "	68	"	" ..
" 27	"	56193	F. Picard, 117 rue St. Ambroise, Quebec.	2 "	64	"	" ..
" 27	"	56194	Victor Beaupré, 59 rue Carillon, Quebec.	2 "	66	"	" ..
" 27	"	56195	J. H. Debonville, 11 ave Renaud, Quebec.	2 "	64	"	Don. Fish & Fruit Co.
" 27	"	56196	L. Desgagne, 914 rue St. Valier, Quebec.	2 "	70	"	Emond & Côté.
" 28	"	56197	Emiline Blouin, 30 rue Carillon, Quebec.	2 "	64	"	J. B. Renaud & Cie.
" 28	"	56198	Jos. Poulin, 26 ave Renaud, Quebec.	2 "	64	"	" ..
" 28	"	56199	Louis Blouin, 81 ave Renaud, Quebec.	2 "	64	"	Don. Fish & Fruit Co.
" 28	"	56200	Z. Goslin, 975 rue St. Valier, Québec.	2 "	64	"	J. B. Renaud & Cie.
Dec. 1	"	56001	Jos. Blouin, 36 rue Chateauguay, Quebec.	2 "	60	Beurre, St. Jean, Isle Orleans.	Manufacturers.
" 1	"	56002	H. Plante, 182 rue Durocher, Quebec.	2 "	64	Unknown.	F. X. Lachance.
" 1	"	56003	F. X. Lachance, 185 rue Bayard, Quebec.	2 "	56	Beurre, St. Jean, Isle Orleans.	Manufacturers.
" 1	"	56004	O. Pichette, 164 rue Chateauguay, Quebec.	2 "	61	Beurre, Ancienne Lorette.	" ..
" 2	"	56005	T. Lebel, 86 rue Durocher, Quebec.	2 "	64	Unknown	Edmond Sylvain

DISTRICT OF EAST QUEBEC—

Dec.	Butter.	2407	N. Pelletier, jr., Chat.	2 lb.	52	Hipolite Soucy, Cap Chat.	.....
"	"	2414	Cyril Charest, Matane.	2 "	56	Jos. Mury, Matane.	.....

SESSIONAL PAPER No. 14

BUTTER

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Water			Ash.	Butyro-refractometer at 40° c.	Reichert Meissl No.			Fat by Differ- ence.
	Separated	Incorporated.	Total.						

F. X. W. E. BELAND, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.		p. c.		
.....		14.33	14.33	1.37	44.2	84.30	56186	Genuine.
.....		15.28	15.28	1.92	43.6	82.80	56187	"
.....		9.37	9.37	2.00	43.3	83.63	56188	"
.....		13.40	13.40	2.82	43.8	83.78	56189	"
.....		12.18	12.18	3.28	48.6	84.54	56190	"
.....		11.93	11.93	5.46	43.2	82.61	56191	"
.....		16.75	16.75	4.56	43.9	78.69	56192	Excess water and deficiency of fat adulterated.
.....		13.80	13.80	2.11	43.8	84.09	56193	Genuine.
.....		15.18	15.18	0.94	43.4	83.88	56194	"
.....		12.39	12.39	2.77	43.8	84.84	56195	"
.....		12.32	12.32	1.25	43.4	86.43	56196	"
.....		10.00	10.00	2.47	43.3	87.53	56197	"
.....		11.78	11.78	2.18	44.1	86.04	56198	"
.....		13.18	13.18	1.75	44.2	85.07	56199	"
.....		13.75	13.75	2.60	43.2	83.65	56200	"
.....		11.75	11.75	1.29	43.1	86.96	56001	"
.....		11.69	11.69	1.51	43.4	86.80	56002	"
.....		11.30	11.30	3.84	44.0	84.86	56003	"
.....		11.45	11.45	9.36	44.0	79.19	56004	Deficiency of fat due to excess salt adulterated. *
.....		8.55	8.55	2.36	43.8	89.09	56005	Genuine.

ALP. PELLETIER, INSPECTOR.

.....	2.50	8.14	10.64	3.13	44.0	88.73	2407	Genuine.
.....	2.00	8.73	10.73	3.80	44.2	87.47	2414	"

* The manufacturers explain excess of salt in this sample as having been added to meet the demand of certain patrons who required a heavily salted butter.

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EAST QUEBEC—							
1914.							
Jan. 10	Butter.....	2430	A. F. Boutin, St. Flavie	2 lbs.	60	Jos. Dubé, St. Joseph	
" 10	"	2441	C. Leteque & Co, St. Flavie.	2 "	70	François Baulin, St. Flavie.	
" 12	"	2444	A. Voyer, St. Flavie...	2 "	60	Thomas Beaulieu, St. Flavie.	
" 12	"	2447	J. A. Dufour, St. Flavie.	2 "	60		Matthews-Laing Co., Toronto.
" 13	"	2451	Belasence & Co, Rimouski.	2 "	60	Ant. Gagnon, St. Flavie.	
" 13	"	2454	Talbot, Lim., Rimouski.	2 "	70		Matthews-Laing Ltd., Toronto.
" 15	"	2458	R. Levesque, R. du Loup	2 "	66	J. B. Therriault, St. Modeste.	
" 15	"	2459	H. Pagé, R. du Loup...	2 "	66	Ludger Voyer, St. Antonin.	
" 15	"	2462	J. S. Proulx, R. du Loup	2 "	64	"	
" 15	"	2464	P. Ouellet, R. du Loup.	2 "	60	Unknown.....	
" 15	"	246	Ouellet & Ouellet, R. du Loup.	2 "	60	Syndicat de R. du Loup.	
" 15	"	2467	J. L. Drolet, R. du Loup	2 "	64	Matthews-Laing Co., Toronto.	
" 15	"	2469	E. Michaud, R. du Loup	2 "	70	L. Voyer, St-Antoine.	
" 16	"	2471	Jos. St. Pierre, R. du Loup.	2 "	60	S. Michaud, St. Alexandre.	
" 16	"	2472	Ed. Lapointe, Fraserville.	2 "	64	Aug. Breton, St. Epiphane.	
" 16	"	2473	Jos. Viel, Fraserville...	2 "	70	J. B. Therriault, St. Modeste.	
" 16	"	2475	V. Drolet, Fraserville...	2 "	70	"	
" 16	"	2477	J. B. Michaud, Fraserville.	2 "	64		Matthews-Laing, Montreal.

DISTRICT OF THREE RIVERS—

1913.							
Nov. 23	Butter....	59754	E. Etouard Desrosiers, St. Félix.	3 lbs..	90	Vendor.....	
" 25	"	59759	Edouard Frechette, St. Félix.	"	90	"	
" 26	"	59760	Moïse Boucher, St. Mélanie	"	90	"	
" 26	"	59761	Albert Massicotte, St. Mélanie.	"	90	"	
" 26	"	59762	Samuel Pelerin, St. Mélanie.	"	90	"	
" 27	"	59763	Alfred Desrosiers, St. Elizabeth	"	90	"	
" 27	"	59764	Anselme Plante, St. Elizabeth.	"	90	"	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Remarks and Opinion of the Chief Analyst.	
	Water.			Ash.	Butyro-refrac- tometer at 40°C.	Reichert Meissl No.	Fat by Differ- ence.		No. of Sample.
	Separat- ed.	Incor- porated.	Total.						

Concluded.

	p.c.	p.c.	p.c.	p.c.			p.c.		
.....	0.70	7.55	8.25	1.19	44.2	.....	91.26	2439	Genuine.
.....	2.00	11.3	13.30	2.50	42.4	.....	86.11	2441	"
.....	2.50	8.31	10.81	1.57	43.0	.....	90.12	2444	"
.....	.....	10.55	10.55	1.76	44.8	27.6	87.69	2447	"
.....	2.20	9.28	11.48	3.68	43.0	.....	87.04	2451	"
.....	1.30	9.94	11.24	2.07	44.0	.....	87.99	2454	"
.....	.....	12.58	12.58	1.93	43.4	.....	85.49	2458	"
.....	0.30	11.79	12.09	2.90	44.0	.....	85.31	2459	"
.....	0.30	10.11	10.41	3.33	44.2	.....	86.59	2462	"
.....	1.00	10.00	11.00	6.13	44.2	.....	83.87	2464	"
.....	1.00	10.96	11.96	1.74	43.2	.....	87.30	2466	"
.....	.....	7.95	7.95	1.49	45.0	28.0	90.56	2467	"
.....	.....	12.68	12.68	3.15	44.2	.....	84.17	2469	"
.....	1.00	11.35	12.35	4.32	43.6	.....	84.33	2471	"
.....	0.50	11.10	11.60	2.73	43.8	.....	85.17	2472	"
.....	.....	13.96	13.96	2.27	43.4	.....	83.77	2473	"
.....	0.40	13.49	13.89	2.59	44.2	.....	83.92	2475	"
.....	.....	5.87	5.87	1.27	45.0	27.7	92.86	2477	"

DR. V. P. LAVALLÉE, INSPECTOR.

.....	.....	12.02	12.02	1.03	43.4	.....	86.95	59754	Genuine.
.....	.....	12.52	12.52	2.60	43.0	.....	84.88	59759	"
.....	.....	12.56	12.56	1.06	43.0	.....	86.38	59760	"
.....	.....	12.18	12.18	2.44	44.2	.....	85.38	59761	"
.....	.....	9.18	9.18	2.49	43.8	.....	88.33	59762	"
.....	.....	10.28	10.28	2.26	42.1	.....	87.46	59763	"
.....	.....	11.88	11.88	0.93	44.0	.....	87.19	59764	"

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
Nov. 28	Butter.	59765	Ulric Desroches, St. 3 lbs.	90		Vendor.	
			Gabriel.				
" 9	"	59766	Henri Lavallée, St. Ga-	30		"	
			brriel.				
" 29	"	59767	Joseph Contin, St. Ga-	91		"	
			brriel.				
Dec. 2	"	59768	Agnus Roy, St. Jean	90		"	
			de Matha.				
" 3	"	59769	Eucher Guérard, St.	90		"	
			Félix.				
" 3	"	59770	Alexis Rainville, St.	90		"	
			Félix.				
" 4	"	59771	Joseph Longpré, Ste.	90		"	
			Eméline.				
" 4	"	59772	Albert Champagne, Ste.	90		"	
			Eméline.				
" 5	"	59773	Camille Joly, Ste. Emé-	90		"	
			line.				
" 5	"	59774	William Lauireville, St.	90		"	
			Jean de Matha.				
" 6	"	59775	Auguste Boucher, St.	90		"	
			Cléophas.				
" 6	"	59776	Narcisse Gadbury, St.	90		"	
			Jean de Matha.				
" 11	"	59777	Octavien Roberge, St.	90		"	Roberge, St. Nor-
			Norbert.				bert.

DISTRICT OF EASTERN TOWNSHIPS—

Dec. 9	Butter.	2201	Thériault & Leduc, 2 lbs. 60	A. W. Barton, Ascot
			Sherbrooke.	
" 9	"	2202	A. Boisvert, Sherbrooke 2 " 66	Unknown
" 10	"	2203	G. Gironard, Victoria- 2 " 64	C. Desfosse, St. Valier
			ville.	de Beel de.
" 10	"	2204	F. Paquette, Windsor 2 " 64	N. Boucher, Wind-
			Mills.	sor Mills.
" 11	"	2205	J. B. Le Baron, Ltd., 2 " 66	J. W. McKay, No.
			No. Hatley.	Hartley.
" 12	"	2206	Aimé Cardin, Acton- 2 " 60	A. Ménard, Acton-
			vale.	ville.
" 15	"	2207	O. F. Piché, Drummond- 2 " 64	E. Carrignan, Drum-
			ville.	mondville.
" 15	"	2208	F. P. Williams, Knowl- 2 " 51	Gen. Gorgette, Bol-
			ton.	ton Glen.
" 16	"	2209	J. P. McMahon, West 2 " 65	West Shefford, Crea-
			Shefford.	merey.
" 16	"	2210	A. S. Kendall & Co., 2 " 60	Mrs. H. Hudon, Law-
			Lawrenceville.	renceville.
" 16	"	2211	R. H. Peardon, East- 2 " 64	R. Rogers, Eastman.
			man.	
" 16	"	2212	Jas. Aramotte, Magog. 2 " 70	Gun Langlois &
				Co., Ltd, Mont-
" 17	"	2213	H. Bird, Waterloo, P. Q. 2 " 62	A. Young, Waterloo,
				P. Q.
" 17	"	2214	Sweet Bros., Granby. 2 " 64	Unknown. Unknown

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refrac- tometer at 40° C.	Reichert Meissl No.	Fat by Differ- ence.		
	Separat- ed.	Incor- porated.	Total.						
<i>Concluded.</i>									
	p. c.	p. c.	p. c.	p. c.			p. c.		
		11.15	11.15	2.98	43.6		85.87	59765	Genuine
		9.68	9.68	1.10	43.9		89.22	59766	"
		12.76	12.76	2.66	43.6		84.58	59767	"
		13.20	13.20	2.10	43.4		84.70	59768	"
		9.60	9.60	3.09	42.2		88.31	59769	"
	5.00	12.28	17.28	3.04	43.0		84.68	59770	"
		10.68	10.68	2.64	43.6		86.68	59771	"
		11.55	11.55	2.21	42.8		86.24	59772	"
		12.40	12.40	1.42	44.0		85.18	59773	"
		11.28	11.28	1.66	43.8		87.06	59774	"
		10.56	10.56	2.52	43.5		86.92	59775	"
		12.90	12.90	1.99	44.4	25.7	85.11	59776	"
		8.28	8.28	1.65	43.4		90.07	59777	"

J. C. ROULEAU, INSPECTOR.

	3.00	9.45	12.45	3.06	43.4		87.49	2201	Genuine.
	1.00	5.91	6.91	3.11	42.8		90.98	2202	"
		14.30	14.30	1.18	43.4		84.52	2203	"
		9.90	9.90	4.87	43.6		85.23	2204	"
		10.50	10.50	3.33	43.0		86.11	2205	"
		12.28	12.28	3.04	43.8		84.68	2206	"
		14.32	14.32	2.82	43.2		82.86	2207	"
		13.61	13.61	3.92	44.2		2.47	2208	"
		13.30	13.30	7.13	43.5		79.57	2209	"
		11.92	11.92	1.52	43.1		86.56	2210	"
		13.22	13.22	1.97	43.3		84.81	2211	"
		9.42	9.42	1.23	44.3		89.35	2212	"
	2.20	8.40	10.60	4.12	42.8		87.48	2213	"
		10.60	10.60	3.07	42.6		86.3	2214	"

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1914.							
Jan. 14	Butter.....	2215	A. Dionne, St. Georges, P.Q.	2½ lbs.	62	Unknown	Unknown
" 15	"	2216	La Cie Avid & Nadeau Lim., Valley Junction.	2 "	56	"	"
" 15	"	2217	J. E. Lacombe, St. Victor de Tring.	2 "	52	"	"
" 15	"	2218	Morency & Fils, St. Evariste.	2 "	50	"	"
" 20	"	2219	J. S. Gingras, Marieville.	2 "	68	.....	Matthews Ltd. Montreal.
" 22	"	2220	J. Brousseau, St. Hyacinthe.	2 "	62	R. St. Jean, St. Barnabé.	.....

DISTRICT OF MONTREAL—

1913.							
Dec. 3	Butter.....	58761	F. P. Horan, 1607 St. Lawrence Blvd., Montreal.	2 lbs.	68		Canadian Swift Co.
" 3	"	58762	C. E. Oliver, 1793 St. Lawrence Blvd., Montreal.	2 "	70	J. J. Joubert, Lim., Montreal.	
" 9	"	58763	A. Walgensinger, 394 Charlevoix st., Montreal.	2 "	70		Gunn, Langlois & Cie, Montreal.
" 9	"	58764	J. A. Bourdeau, 305 Charlevoix st., Montreal.	2 "	70		J. A. Vaillancourt, Montreal.
" 9	"	58765	D. Hadden, 1 Rushbrooke st., Montreal.	2 "	68		Olive Dorion & Stroud, Montreal.
" 9	"	58766	A. O. Galarneau, 624 Wellington st., Montreal.	2 "	66		Matthews, Ltd., Montreal.
" 9	"	58767	Ed. Upton, 353 Bourgeois st., Montreal.	2 "	68		Swift Canadian Co.
" 9	"	58768	J. Pringle, 340 Bourgeois st., Montreal.	2 "	70		Whyte Packing Co.
" 11	"	58769	J. Steaton, 364 Hibernia st., Montreal.	2 "	68		Matthews, Ltd.
" 11	"	58770	N. Fortin, 80 Coleraine st., Montreal.	2 "	66		Lunham & Graham, Montreal.
" 11	"	58771	P. Blais, 288 Liverpool st., Montreal.	2 "	64		Jas. J. Dalrymple & Sons, Montreal.
" 12	"	58772	H. Benoit, 340 Charron st., Montreal.	2 "	68		
" 16	"	58773	E. Lamarche, 2101 St. Lawrence Blvd., Montreal.	2 "	68	Lamarche & Lachapelle, St. Esprit.	
" 16	"	58774	E. Morin, 2301 St. Lawrence Blvd., Montreal.	2 "	68		Swift Canadian Co.
" 17	"	58775	J. A. Tardif, 2441 Clark st., Montreal.	2 "	70		Matthews Ltd.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refra- ctometer at 40°c.	Reichert Me- tal No.	Fat by Differ- ence.		
	Separat- ed.	Incorpo- rated.	Total.						

Concluded.

	p.c.	p.c.	p.c.	p.c.			p. c.		
.....	2.00	11.05	13.05	8.23	43.6	.....	80.72	2215	Deficiency of fat, due to excess of salt. Pass.
.....	1.25	10.70	11.95	2.47	42.6	.....	86.83	2216	Genuine.
.....	2.50	11.62	14.12	6.45	44.2	.....	81.93	2217	Slight deficiency of fat due to excess of salt. Pass.
.....	2.50	13.30	15.80	2.57	43.2	.....	84.13	2218	Genuine
.....		11.97	11.97	1.21	43.8	.....	86.82	2219	"
.....		12.45	12.45	2.82	43.6	.....	84.73	2220	"

D. J. KEARNEY, INSPECTOR.

.....		13.36	13.36	1.35	42.6	.....	85.29	58761	Genuine.
.....		12.30	12.30	2.28	42.5	.....	85.42	58762	"
.....		11.95	11.95	2.18	45.0	29.9	85.87	58763	"
.....		15.05	15.05	1.98	44.1	.....	82.79	58764	"
.....	0.50	10.40	10.90	1.39	45.2	26.4	88.21	58765	"
.....	0.25	12.95	13.20	1.17	44.9	25.6	85.88	58766	"
.....		13.77	13.77	1.97	44.2	.....	84.26	58767	"
.....		11.57	11.57	1.47	43.0	.....	86.96	58768	"
.....	1.00	10.42	11.42	2.97	43.2	.....	86.61	58769	"
.....	0.70	10.22	10.92	1.36	44.7	28.1	88.42	58770	"
.....		12.80	12.80	2.16	44.2	.....	85.04	58771	"
.....		13.18	13.18	2.54	44.2	.....	84.28	58772	"
.....	1.50	12.20	13.70	1.88	44.2	.....	85.92	58773	"
.....		14.10	14.10	1.03	44.0	.....	84.87	58774	"
.....		14.72	14.72	2.24	43.0	.....	83.10	58775	"

5 GEORGE V., A. 1915
BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1913.							
Dec. 17	Butter.....	58776	W. Desrosiers, 69 Bernard, Montreal.	2 lbs.	68		Gunn, Langlois
" 18	"	58777	St. George Grocery, 56 Bernard, Montreal.	2 "	70		W. Champagne
" 18	"	58778	Alf. Boivin, 2498 Waverley st., Montreal.	2 "	68		A. Ayer & Co.
" 18	"	58779	J. I. Blair & Co., 113 Bernard, ave., Montreal.	2 "	70	Jas. Dalrymple & Sons.	
" 22	"	58780	J. A. Ménard, 59 Richmond st., Montreal.	2 "	70	" "	

DISTRICT OF ARGENTEUIL, TWO MOUNTAINS AND TERREBONNE—

Dec. 5	Butter	2302	Wilfrid Mayer, St. Jerome, P.Q.	2 lbs.	64	J. B. Lanthier, St. Hypolite, P.Q.	
" 22	"	2303	Charles Tallon, St. Jerome, P.Q.	2 "	64	Delphin Dion.	
" 22	"	2304	Alcide Beauchamp, St. Jerome, P.Q.	2 "	70	Wilfred Gareau	
" 19	"	2306	Anicet Leduc, Agathe des Monts.	2 "	76	Brookfield Creamery	

DISTRICT OF VALLEYFIELD—

1914.							
Jan. 26	Butter	58580	L. Moreau, St. Johns, P.Q.	2 lbs.	64	L. Larocque, Lacadie	
" 26	"	58581	W. R. Simpson, St. Johns, P.Q.	2 "	68		Z. Limoges, Montreal.
" 26	"	58582	A. L. Duhamie, St. Johns, P.Q.	2 "	56		Unknown.
" 26	"	58583	M. A. Comtis, St. Johns, P.Q.	2 "	64		Wm. Davies, Montreal.
" 26	"	58584	T. Lacoste, St. Johns, P.Q.	2 "	66		Wm. Copping, St. Johns.
" 28	"	58585	J. G. Léonard, Beauharnois.	2 "	66	Donat Dagenais, Beauharnois.	
" 28	"	58586	J. A. Faubert, Beauharnois.	2 "	66	E. I. McGowan, St. Martin.	
" 28	"	58587	O. Marchand, Beauharnois.	2 "	66	"	"
" 28	"	58588	M. Martin, Beauharnois.	2 "	66	"	"
" 28	"	58589	J. L. E. Guimond, Beauharnois.	2 "	64	"	"
" 30	"	58590	Bonneville Gagnon & Cie, Beauharnois.	2 "	68	Joseph Hébert, Halton, P.Q.	
" 30	"	58691	La Maison L. P. Lazure, St. Remi.	2 "	64		Swift Canadian Co., Montreal
" 30	"	58592	C. H. Lamarre, St. Remi.	2 "	66	Lussier & Surprenant, St. Remi.	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Separat- ed.	Water.		Ash	Butyro-cra- diometer at 40°c.	Reichert Me- tal No.	Fat by Differ- ence.		
		Incor- porated.	Total.						
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p.c.		
.....		10.85	10.85	3.68	42.8	.....	85.47	58776	Genuine.
.....		14.50	14.50	3.29	42.9	.....	82.21	58777	"
.....		13.78	13.78	2.52	43.0	.....	83.64	58778	"
.....		12.92	12.92	2.00	43.8	.....	85.08	58779	"
.....		12.22	12.22	1.50	43.4	..	86.28	58780	"

N. CADIEUX, TEMPORARY INSPECTOR.

.....	2.50	13.55	16.05	2.93	44.2	.....	83.52	2302	Genuine.
.....	1.00	13.27	14.27	4.88	43.5	.....	81.85	2303	Slight deficiency in fat. Pass.
.....	1.00	7.50	8.50	2.19	44.0	.....	90.31	2304	Genuine.
.....		15.68	15.68	2.04	44.0	.....	82.27	2306	"

D. J. KEARNEY, ACTING INSPECTOR.

.....	16.00	16.00	2.65	44.2	.....	81.35	58580	Deficiency in fat, due to maximum water content. Pass.
.....	14.10	14.10	1.63	44.0	.....	84.27	58581	Genuine.
.....	11.03	11.03	1.85	44.2	.....	87.12	58582	"
.....	12.40	12.40	1.70	45.2	26.9	85.90	58583	"
.....	11.50	11.50	2.72	45.0	25.6	85.48	58584	"
.....	12.20	12.20	1.53	43.6	.....	86.27	58585	"
.....	15.15	15.15	3.20	43.8	.....	81.65	58586	Slight deficiency of fat. Pass.
.....	13.25	13.25	2.49	44.0	.....	84.25	58587	Genuine.
.....	12.80	12.80	2.18	43.0	.....	85.02	58588	"
.....	12.80	12.80	2.52	43.0	.....	84.68	58589	"
.....	14.50	14.50	2.70	44.8	25.1	82.80	58590	"
.....	14.87	14.87	1.99	43.4	.....	83.14	58591	"
.....	12.26	12.26	3.11	43.4	.....	84.63	58592	"

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD--							
1914.							
Jan. 30	Butter.....	58593	P. A. Collette, Beauharnois.	2 lbs.	66	Lussier & Suprenault, St. Rémi.	
" 36	"	58594	Mrs. C. Benoit, Beauharnois.	2 "	66	Joseph Hébert, Holton, P.Q.	
Feb. 3	"	58595	M. Moriarty, Huntingdon.	2 "	68	P. Moriarty, Huntingdon.	
" 3	"	58596	E. C. McCoy, Huntingdon, P.Q.	2 "	66		Matthews, Ltd., Montreal.
" 3	"	58597	John Hunter & Sons, Huntingdon, P.Q.	2 "	64	P. Moriarty, Huntingdon.	
" 3	"	58598	Geo. Dixon, Huntingdon, P.Q.	2 "	66		W. T. Leonard & Co., Huntingdon.
" 3	"	58599	J. Brown, Huntingdon, P.Q.	2 "	66		Matthews Ltd., Montreal.

DISTRICT OF OTTAWA—

1913.							
Dec. 8	Butter..	59224	W. West, Almonte....	3 lbs.	96	Renfrew Creamery Co., Renfrew.	Mrs.
" 8	"	59225	H. H. Cole, Almonte ..	2 "	60	Mrs. Andrews, Pakenhams.	"
" 9	"	59226	W. C. Edwards & Co., Rockland.	3 "	99	Maxville Creamery, Maxville.	"
" 11	"	59227	Geo. Patterson, Wakefield.	2½ "	57	Thos. Cafferty, St. Cecile de Mash.	"
" 11	"	59228	Alex. Maclareu, Wakefield.	3 "	90	Therese Dion, St. Cecile de Mash.	"
" 16	"	59229	R. Clark Cummings, Cummings Bridge.	3 "	99	J. Moynour, Ltd., Ottawa.	"
" 16	"	59230	Emond Co., Eastview..	2 "	56	J. Lerner, Ottawa...	"
" 17	"	59231	T. W. Collins, Friel st., Ottawa.	2 "	70	The Alderney Dairy Co., Ottawa.	"
" 18	"	59232	O. Lemieux, Pont st., Hull.	2½ "	78	Moynour, Ottawa...	"
" 18	"	59233	Jos. Martel & Co., Duc st., Hull.	4½ "	150	J. Freedman, Ottawa.	"
" 18	"	59234	M. J. Laverdure, Albert st. Hull.	3 "	96	Ottawa Cold Stores, Ltd., Ottawa.	"
" 19	"	59235	J. H. Lever, By Ward market, Ottawa.	3 "	84	Unknown	W. A. Hodgins, Shawville.
" 19	"	59236	" " " "	2 "	64	"	Jas. Alexander, Ltd., St. Paul, Montreal.
" 19	"	59237	Gougeon & Fils, By Ward market, Ottawa.	3 "	96	J. Freedman, Ottawa.	"
" 19	"	59238	S. Diamend, By Ward market, Ottawa.	3 "	96	E. M. Lerner & Sons, Ottawa.	"
" 19	"	59239	Matthews-Laing Ltd., By Ward market, Ottawa.	3 "	96	Unknown	"
" 19	"	59240	" " " "	2 "	56	"	"

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Water.			Ash.	Butyrorefra- ctometer at 10° c.	Reichert Me- ter N.°.			Fat by Differ- ence.
	Separat- ed.	Incorpo- rated	Total						
<i>Concluded.</i>									
	p.c.	p.c.	p.c.	p.c.			p.c.		
.....	.....	13.22	13.22	3.34	43.0	.....	83.44	58593	Genuine.
.....	.....	13.02	13.02	2.38	44.8	23.4	84.60	58594	"
.....	.....	12.45	12.45	0.90	42.5	.....	86.65	58595	"
.....	.....	12.87	12.87	1.52	44.6	28.3	85.61	58596	"
.....	.....	12.50	12.50	1.36	43.6	.....	86.14	58597	"
.....	.....	10.40	10.40	3.94	43.8	.....	85.66	58598	"
.....	.....	12.90	12.90	3.56	44.6	29.6	83.54	58599	"

J. A. RICKEY, INSPECTOR.

	10.60	10.60	2.15	45.0	26.2	87.25	59224	Genuine.	
	12.40	12.40	2.87	44.6	23.1	84.73	59225	"	
	12.25	12.25	2.24	43.4	....	85.51	59226	"	
	3.50	10.52	14.02	0.96	45.8	24.8	88.52	59227	"
The Gatineau Cream- ery.	9.55	9.55	1.84	44.8	26.4	88.61	59228	"	
Gold Medal	14.30	14.30	3.29	44.8	27.4	82.41	59229	"	
Beachburg Creamery.	8.40	8.40	2.04	43.6	....	89.56	59230	"	
Reg. No. 1532.									
Crown Brand	2.63	13.20	15.83	2.82	43.0	....	83.98	59231	"
	2.68	10.42	13.10	2.53	44.7	27.1	86.99	59232	"
		12.55	12.55	6.25	42.8	....	81.20	59233	Deficiency of fat. Pass.
Sweet Clover Brand...	1.00	10.10	11.10	2.11	43.8	....	87.79	59234	Genuine.
	0.50	8.48	8.98	4.50	43.5	....	87.02	59235	"
	0.40	11.04	11.44	3.30	43.5	....	85.66	59236	"
Capital Creamery.	11.85	11.85	1.27	43.4	....	86.88	59237	"	
Rising Sun	11.85	11.85	1.90	43.8	....	86.25	59238	"	
Rose Brand Choice Creamery.	0.50	10.42	10.92	3.00	43.4	....	86.58	59239	"
	0.25	10.00	10.25	8.00	44.6	27.2	82.00	59240	Slight deficiency fat, due to excess of salt. Pass.

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
Dec. 19	Butter.	59241	B. Slattery, Sparks st., 3 lbs. Ottawa.	105	Valley Creamery of Mfrs.		
" 19	"	59242	Valley Creamery of 3 " Ottawa, Sparks st., Ottawa.	90	Vendors		
" 22	"	59243	Ottawa Dairy Co., Ltd., 2 " Ottawa.	64	"		
1914.							
Jan. 17	"	59291	" " 2 " "	70	"		

DISTRICT OF KINGSTON—

1913.							
Dec. 8	Butter.	61013	James Redden, Kingston	1 lb.	35	Eastern Dairy School Kingston.	
" 8	"	61014	James Crawford, Kingston.	1 lb.	35	Eldon Creamery, Lornville.	
" 8	"	61015	J. B. Hutcheson, Kingston.	1 lb.	33	Victoria Creamery, Lindsay.	
" 8	"	61016	Wm Davis, Kingston.	1 lb.	35	Woodside Creamery.	
" 8	"	61017	W. E. Hopinson Bros., Kingston.	1 lb.	35	Royal Township Creamery.	
" 8	"	61018	Geo. Gibson, Kingston.	1 lb.	32	C. McCrane.	
" 8	"	61019	L. W. Murphy, Kingston.	1 lb.	35	Favourite Creamery.	
" 8	"	61020	James Kennedy, Kingston.	1 lb.	34	Eldon Creamery, Lornville.	
" 8	"	61021	J. D. Vallean, Kingston.	1 lb.	33	Brooklin Creamery.	
" 8	"	61022	Mrs. Irwin, Kingston.	1 lb.	33	Beachburg Creamery.	
" 8	"	61023	J. R. B. Gage, Kingston.	1 lb.	33	Brooklin Creamery.	
" 8	"	61024	J. A. Lemmons, Kingston.	1 lb.	32	Mrs. Brown, Odessa.	
" 9	"	61025	W. H. Milling, Napanee.	1 lb.	33	Central Smith Dairy, Peterboro.	
" 9	"	61026	G. W. Royes, Napanee.	1 lb.	32	Laings Special Creamery, Brockville.	
" 9	"	61027	F. H. Perry, Napanee.	1 lb.	32	"	
" 9	"	61028	W. D. Nickle, Napanee.	1 lb.	32	Laings Special Creamery, Brockville.	
" 9	"	61029	H. C. Hampton, Belleville.	1 lb.	32	H. A. Brann, Creamery.	
" 9	"	61030	L. R. Artis, Belleville.	1 lb.	35	Laings Special Creamery, Brockville.	
" 9	"	61031	R. Elvins, Belleville.	1 lb.	33	A. H. Campbell, Harwood.	
" 9	"	61032	H. E. Fairfield, Belleville.	1 lb.	33	Laings Special Creamery, Brockville.	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refrac- tometer at 40 c.	Reichert Metal No.	Fat by Differ- ence.		
	Separ- ated.	Incor- porated.	Total.						
<i>Concluded.</i>									
	p. c.	p. c.	p. c.	p. c.			p. c.		
Ottawa Creamery.....	12 16	12 16	2 82	43 5			85 02	59241	Genuine.
"	11 82	11 82	2 72	43 0			85 46	59242	"
Favorite	13 50	13 50	2 23	44 1			84 27	59243	"
"	16 44	16 44	0 09	42 4			83 47	59291	Slight excess of water; but the fat content is high. Pass.
JAS. HOGAN, INSPECTOR.									
	13 44	13 44	0 09	43 2			86 47	61013	Genuine.
	11 38	11 38	2 89	43 5			85 73	61014	"
	13 07	13 07	2 74	44 0			84 19	61015	"
	11 83	11 83	2 23	43 6			85 94	61016	"
	11 35	11 35	2 17	43 0			86 48	61017	"
	11 45	11 45	2 32	43 0			86 23	61018	"
	10 08	10 08	2 09	43 4			87 83	61019	"
	10 00	10 00	3 34	43 8			86 66	61020	"
	1 50	11 50	13 00	2 69	43 2		85 81	61021	"
	0 50	12 72	13 22	2 46	44 2		84 82	61022	"
	11 40	11 40	2 58	43 0			86 02	61023	"
	11 45	11 45	3 55	44 0			85 00	61024	"
	11 06	11 06	3 20	42 6			85 74	61025	"
	13 90	13 90	1 95	43 5			84 15	61026	"
"Anchor Brand Dairy."	11 43	11 43	2 50	43 8			86 07	61027	"
	9 50	9 50	0 80	44 3	25 4		89 70	61028	"
	9 87	9 87	2 67	43 6			87 46	61029	"
	8 19	8 19	2 30	43 0			88 51	61030	"
Finest Creamery.....	11 49	11 49	3 04	43 6			85 47	61031	"
	9 50	9 50	2 07	43 8			88 43	61032	"

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1913.							
Dec 20	Butter.	57540	F. S. Cleaverley, 84 St. Lawrence mkt., Toronto.	2 lbs..	56	.....	W. C. Latimer, Beaverton.
" 19	"	57572	L. Miller, 192 Parliament st., Toronto.	2 "	64	.....	Spoffard, Almiral.
" 19	"	57573	L. Bell, 244 Dundas st. west, Toronto.	2 "	63	.....	Matthews-Laing, Ltd., Toronto.
" 19	"	57574	T. H. Whitely, 287 St. Johns Road west, Toronto.	2 "	70	.....	Swift's Canadian Co., Ltd., West Toronto.
" 20	"	57575	R. Tomlin, St. Lawrence mkt., Toronto.	2 "	50	.....	W. Fairburn, Orangeville.
" 20	"	57576	H. Forsythe, 81 St. Lawrence mkt., Toronto.	2 "	63	.....	Gunn's, Ltd., Toronto.
" 22	"	57577	J. E. Harrison, 827 Lansdowne ave., Toronto.	2 "	60	Mrs. T. A. Harvey, Jack's Lake.	J. J. Fee, Toronto.
" 22	"	57578	Jas. Gourlay, 43 Wallace ave., Toronto.	2 "	68	.....	Wm. Duckworth Toronto.
" 26	"	57579	J. H. Cardy, 675 Broadview ave., Toronto.	2 "	70	Wilmot Creamery Co., Baden, Ont.	Willard & Co., Ltd., Toronto.
" 26	"	57580	The Wm. Davies Co., Ltd., 749 Broadview ave., Toronto.	2 "	64	.....	Wm. Davies Co., Ltd., Packing House, Toronto.
" 26	"	57581	J. Atkinson, 2706 Yonge st. north, Toronto.	2 "	66	.....	R. Whiticker.
" 26	"	57583	J. B. Whaley, 2295 Yonge st. north, Toronto.	2 "	64	Mrs. W. Perry, Linton.	.....
" 30	"	57584	A. Hibben, 2444 Queen st. east, Toronto.	2 "	70	.....	Gunn's, Ltd., Toronto.
" 30	"	57585	W. J. Snell, 2165 Queen st., east, Toronto.	2 "	70	.....	MacLaren's Imperial Cheese Co., Ltd., Toronto.
" 31	"	57586	Brown Bros., 552 Queen st., west, Toronto.	2 "	70	.....	Rutherford, Marshall & Co., Toronto.
" 31	"	57587	D. C. Murray, 1441 Yonge st., Toronto.	2 "	70	Mrs. Jas. McEwan, Lloydtown.	.....
" 31	"	57588	The Wm. Davies Co., Ltd., 1152 Yonge st., Toronto.	2 "	68	.....	The Wm. Davies Co., Ltd., Packing House, Toronto.
1914.							
Jan. 2	"	57589	Puckel & Scillary, Oshawa.	2 "	62	.....	Unknown.
" 2	"	57590	F. I. Armstrong, Oshawa.	2 "	60	.....	McDowell & Morris, Oshawa.

DISTRICT OF TORONTO—

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refra- ctometer at 40° C.	Reichert Me- isel.	Fat by Diffe- rence.		
	Separated	Incorpo- rated.	Total.						

H. J. DAGER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.		p. c.		
.....	0.25	9.34	9.59	2.09	43.7	88.57	57540	Genuine.
.....	0.75	11.12	11.87	5.54	42.6	83.34	57572	"
Favourite Creamery...	1.00	11.80	12.80	2.55	43.6	85.65	57573	"
Brookfield Extra Cre- amery.		11.70	11.70	2.50	44.1	85.80	57574	"
.....	0.25	8.98	9.23	7.00	44.0	84.02	57575	"
.....	1.00	13.65	14.65	2.62	44.2	83.73	57576	"
Choice Separator Butter	2.60	9.35	11.95	4.46	44.0	86.19	57577	"
Gold Medal Creamery.	2.80	11.85	14.65	2.88	44.2	85.27	57578	"
Made from pure past- urized cream.	2.40	14.18	16.58	4.82	42.3	81.00	57579	Deficiency in fat. Pas.
Buttercup Creamery.	.....	12.92	12.92	1.49	44.6	29.3	85.59	57580 Genuine.
.....	0.50	11.65	12.15	2.22	40.6	33.3	86.13	57581 "
Choice Dairy.	0.25	9.62	9.87	2.45	42.8	.....	87.88	57583 "
Willowdale Creamery.	2.00	10.72	12.72	2.08	43.0	.....	87.20	57584 "
Primrose Choice Cre- amery.	1.50	11.55	13.05	1.59	44.2	.....	86.86	57585 "
Choice Pasturized Gold Medal Creamery.	....	10.58	10.58	1.39	45.5	29.1	88.03	57586 "
Choice Dairy.	0.50	11.45	11.95	5.00	43.6	.....	83.55	57587 "
Woodside Creamery...	0.25	10.11	10.36	1.75	44.6	30.1	88.14	57588 "
.....	.....	8.38	8.38	4.25	40.6	33.1	87.37	57589 "
.....	0.50	15.35	15.85	3.10	43.6	.....	81.55	57590 Slight deficiency of fat. Pas.

5 GEORGE V., A. 1915
BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Dec. 2	Butter.	59801	McDougal & Evans, Owen Sound.	2 lbs.	50		Farmer . .
" 3	"	59802	D. J. Cunningham, Owen Sound.	3 "	56		Unknown.
" 3	"	59803	A. W. McFaul, Owen Sound.	2 "	58		Farmers....
" 4	"	59804	Shields & Co., Palmerton.	2 "	56		Joseph Kennedy
" 5	"	59805	C. T. Hicks, Guelph.	2 "	68	Guelph Creamery Co., Guelph.	
" 5	"	59806	J. M. Dooley, Guelph.	2 "	68	"	
" 9	"	59807	John Walker, Paris.	2 "	68	Princeton Creamery, Princeton.	
" 9	"	59808	J. M. Patterson, Paris.	2 "	60	J. K. Nill, Falkland.	
" 10	"	59809	A. Caulbeck, 104 Market st., Brantford.	2 "	68	Brant Creamery, Brantford.	
" 10	"	59810	Geo. Cooper, 135 Market st., Brantford.	2 "	68		Swift Canadian Co., Ltd., Toronto.
" 10	"	59811	M. B. O'Loughlin, 131 Clarence st., Brantford.	2 "	62	Wm. Doddy, Brantford.	
" 16	"	59812	A. Culbert, 188 Locke st., Hamilton.	2 "	70		Fearman, Hamilton.
" 16	"	59813	John Slatery, 137 Locke st., Hamilton.	2 "	60		P.W. Armstrong, Selkirk.
" 16	"	59814	R. J. Hewson, 312 Main st. West, Hamilton.	2 "	70	Hagersville Creamery, Hagersville.	
" 16	"	59815	W. A. Atkinson, 311 Barton st., Hamilton.	2 "	70	R. B. Moore, Galt.	
" 16	"	59816	Wm. Carrall, 595 Barton st. West, Hamilton.	2 "	60		Unknown.
" 16	"	59817	H. Stewart, 114 Sanford st., Hamilton.	2 "	70	Robert Snell, Norwich.	
" 16	"	59818	H. Taylor, 563 King st. East, Hamilton.	2 "	64		Unknown.
" 17	"	59819	E. H. Soules, 99 John st. South, Hamilton.	2 "	60		"
" 17	"	59820	D. Sullivan, 175 Yonge st., Hamilton.	2 "	70		A. Pain, Hamilton.

DISTRICT OF WINDSOR—

Dec. 12	Butter.	53602	W. I. O. Neil, Clinton.	2 lbs.	54	Unknown.	
" 16	"	53608	Ginsberg Bros., London.	2 "	66	Silverwoods, Ltd., London.	
" 16	"	53612	G. C. Carley, Lambeth.	2 "	68	"	
" 16	"	53614	Earle & Sons, Lambeth.	2 "	60	Geo. Jaives, Tempo, P. O.	
" 9	"	54455	W. R. Butcher, St. Marys.	2 "	60	Winchelsea Creamery, (W.J. Meda)	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample	Remarks and Opinion of the Chief Analyst.
	Separat- ed.	Water. In or- porated.	T fat.	Ash.	Butyro-refrac- tometer at 40°C.	Reichert Menschl No.	Fat by Differ- ence.		
H. J. DAGER, ACTING INSPECTOR.									
.....	p.c.	p.c.	p.c.	p.c.			p.c.		
.....	2.70	13.80	16.50	9.57	42.8	.....	76.63	59801	Butter fat low, due to ex- cess of salt. Adulterated.
Said it was No. 1.	1.00	8.07	9.07	3.29	44.0	.....	88.64	59802	Genuine.
Sold as No. 1.	0.50	9.72	10.22	1.69	43.3	.....	88.59	59803	"
.....	2.50	11.48	13.98	1.85	42.3	.....	86.67	59804	"
.....	1.00	13.23	14.23	3.72	42.6	.....	83.05	59805	"
Labelled Creamery Butter g.c.c.	0.70	10.74	11.44	3.24	42.9	.....	86.02	59806	"
Clover Brand Cream- ery.	.....	8.58	8.58	4.64	43.4	.....	86.78	59807	"
.....	.....	13.70	13.70	3.32	42.6	.....	82.98	59808	"
Brant Creamery, Reg. No. 1533. Guaranteed absolutely pure.	.....	10.42	10.42	1.33	42.6	.....	88.25	59809	"
Brookfield Extra Creamery.	.....	12.48	12.48	3.54	44.7	27.6	83.98	59810	"
.....	.....	11.08	11.08	2.42	41.5	.....	86.50	59811	"
Meado Brook Cream- ery	0.50	12.16	12.66	2.29	43.6	.....	85.55	59812	"
.....	.....	12.92	12.92	2.13	43.0	.....	84.95	59813	"
Clover Leaf Brand. ...	2.00	11.50	13.50	4.10	43.2	.....	84.40	59814	"
Maple Leaf Brand. Finest Creamery.	1.20	11.70	12.90	3.04	43.0	.....	85.26	59815	"
Finest Creamery, Walk- erton Creamery.	.....	11.83	11.83	1.35	43.2	.....	86.82	59816	"
Norwich Gore Cream- ery.	1.00	10.23	11.23	2.32	43.4	.....	87.45	59817	"
.....	0.70	10.55	11.25	2.22	43.0	.....	87.23	59818	"
.....	.....	8.74	8.74	5.34	45.0	27.0	85.92	59819	"
Choice Creamery, Jackson's Creamery.	1.50	11.95	13.45	2.93	44.2	.....	85.12	59820	"

JOHN TALBOT, INSPECTOR.

.....	1.00	10.57	11.57	2.21	43.0	.....	87.22	53602	Genuine.
.....	.....	12.50	12.50	2.19	44.6	26.7	85.31	53608	"
.....	.....	11.80	11.80	1.89	44.0	.....	86.31	53612	"
.....	.....	10.66	10.66	2.92	42.2	.....	86.52	53614	"
Star Brand.	1.00	13.10	14.10	1.59	44.4	27.9	85.31	54455	"

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1913.							
Déc.	9	Butter..	54457 Geo. Smith, St. Marys.	2 lbs..	50	Unknown	
"	9		54464 J. M. Adam, St. Marys	2 "	54	Mrs. Tunnie	
"	10	"	54466 Oman & Mallion, Stratford.	2 "	56	Unknown	
"	10	"	54470 Searth Grocery Co., Stratford.	2 "	56	"	
"	10	"	54476 M. O'Brien, Stratford..	2 "	66	Dempsey & Holmes....	
"	11	"	54481 Chas. S. Andrews, Seaforth.	2 "	36	Unknown	
"	11	"	54482 Sproat & Finnegan, Seaforth.	2 "	50	"	
"	11	"	54487 Thos. Daly, Seaforth.	3 "	56	A. A. Cuthill.....	
"	11	"	54490 M. Williams, Seaforth	2 "	50	Mrs. J. Morrison....	
"	12	"	54495 Geo. McLennan & Co., Clinton.	2 "	52	Unknown	
"	12	"	54497 J. P. Shepperd & Co., Clinton.	2 "	50	"	

DISTRICT OF MANITOBA—

1914.							
Jan.	7	Butter..	53240 D. Christie, Main st., west, Winnipeg.	2 lbs..	75	.....	Dom. Produce Co., Winnipeg.
"	7	"	53241 " " "	2 "	70	.....	Lang Bros.
"	7	"	53242 B. Clay, 181 Bannerman, Winnipeg.	2 "	76	Carson Hygienic Dairy Co., Winnipeg.	Mrs.
"	7	"	53243 Gibson Gage Co., Main st., west, Winnipeg.	2 "	66	.....	.....
"	7	"	53244 W. & D. Mayrs, Main st., west, Winnipeg.	2 "	76	Swift Canadian Co., Winnipeg.	Mrs.
"	7	"	53245 " " "	2 "	76	Carson Hygienic Dairy Co., Winnipeg.	"
"	8	"	53246 Bond & Co., St. James.	2 "	76	Crescent Creamery Co., Winnipeg.	Mrs.
"	8	"	53247 " " "	2 "	70	" " "	"
"	8	"	53248 " " "	2 "	76	.....	Matthews-Laing Ltd., Winnipeg.
"	8	"	53249 C. Killeen, St. James..	2 "	75	.....	Gordon Ironsides Fares Co., Winnipeg.
"	8	"	53250 W. H. Tucker, Notre Dame, west, St. James.	2 "	70	Crescent Creamery Co., Winnipeg.	Mrs.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refrac- tometer at 40°C.	Reichert Meissl No.	Fat by Differ- ence.		
	Separat- ed.	Incor- porated.	Total.						
<i>Concluded.</i>									
	p. c.	p. c.	p. c.	p. c.			p. c.		
.....	3.59	16.00	19.50	1.17	44.6	24.1	82.83	54457	Genuine.
.....	...	11.09	11.09	1.74	43.0	...	87.17	54464	"
.....	2.50	10.35	12.85	1.81	41.2	29.6	87.81	54466	"
.....	4.20	11.80	16.00	4.78	43.2	...	83.42	54470	"
.....	...	12.15	12.15	1.35	43.0	...	86.30	54476	"
.....	...	8.33	8.33	1.81	45.2	21.2	89.86	54481	"
.....	3.00	8.82	11.82	3.40	44.8	24.9	87.78	54482	"
.....	1.00	10.68	11.68	1.86	44.8	28.5	88.06	54487	"
.....	1.00	13.90	14.90	2.14	43.0	...	83.96	54490	"
.....	2.00	9.73	11.73	1.74	43.7	...	89.53	54495	"
.....	2.00	10.54	12.54	2.94	42.3	...	86.52	54497	"

A. C. LARIVIÈRE, INSPECTOR.

Eastern Townships Devon-Dale Creamery.	12.90	12.90	2.00	44.6	29.2	85.10	53240	Genuine.
Perfection Creamery	12.59	12.50	1.37	44.0	...	85.93	53241	"
.....	11.82	11.82	2.70	43.6	...	85.28	53242	"
Made expressly for Gibson Gage Co.	10.35	10.35	1.45	43.8	...	88.20	53243	"
Brookfield Brand	9.65	9.65	1.14	43.5	...	89.21	53244	"
.....	14.00	14.00	2.49	43.0	...	83.51	53245	"
Crescent Brand.	15.80	15.80	2.35	43.8	...	81.95	53246	Slight deficiency in fat.
Aylesbury Brand	20.28	20.28	3.04	43.6	...	76.68	53247	Excess of water and deficiency of fat. Adulterated.
Packed by furnishers, "Rose" Brand.	12.40	12.40	2.20	44.5	28.7	85.40	53248	Genuine.
"Cloverdale" Brand.	14.30	14.30	3.12	43.8	...	82.58	53249	"
"Aylesbury" Brand.	16.48	16.48	2.78	43.5	...	80.84	53250	Excess of water and deficiency of fat. Adulterated.

5 GEORGE V., A. 1915

BULLETIN No. 281—

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	
						Cents.	Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—								
1914.								
Jan.	8	Butter.	53251	W. H. Tucker, Notre-Dame west, St. James	2 lbs.	76		Gordon Ironsides Fares Co., Winnipeg.
"	12	"	53252	Western Cash Grocery, Portage avenue, St. James.	2 "	70		Simpson Produce Co.
"	12	"	53253	" " " " "	2 "	72	Carson Hygienic Dairy Co., Winnipeg.	Manufacturers..
"	12	"	53254	" " " " "	2 "	68	" " " "	"
"	12	"	53255	G. J. Caswell, Logan avenue, St. James.	2 "	80	Laurentia Milk Co. of Manitoba, Ltd., Neepawa, Man.	"
"	12	"	53256	" " " " "	2 "	64	" " " "	Gallagher Holman, Lafrance, Winnipeg.
"	13	"	53257	St. Boniface Creamery Co., St. Boniface, Man.	2 "	Nil	Manufacturers.....	"
"	13	"	53258	Berlin & Co., St. Boniface, Man.	2 "	80	Crescent Creamery Co., Winnipeg.	Manufacturers .
"	13	"	53259	" " " " "	2 "	60	Carson Hygienic Dairy Co., Winnipeg.	"

DISTRICT OF ALBERTA—

1913.							
Dec. 1	Butter	51813	Hallier & Aldridge, Edmonton.	2 lbs.	80	Edmonton Dairy Co., Edmonton.	"
" 1	"	51814	I. H. Morris & Co., Edmonton.	2 "	75	Golden Meadow Creamery, Edmonton.	"
" 2	"	51815	The Acme Co., Edmonton.	2 "	78	Swift Canadian, Edmonton.	"
" 3	"	51816	Hudson Bay Co., Edmonton.	2 "	80	Edmonton City Dairy, Edmonton.	"
" 4	"	51817	Montgomery & West, Wetaskiwin.	2 "	70	Mrs. H. T. Rix, Wetaskiwin.	"
" 4	"	51818	Aboussafy & Murray, Wetaskiwin.	2 "	70	M. Badry, Wetaskiwin.	"
" 5	"	51819	F. E. McLeod, Lacombe.	2 "	60	C. W. Gaitskell, Lacombe.	"
" 11	"	51820	S. G. Freeze, Calgary.	2 "	80	Cheltenham Dairy Co., New Zealand.	"
" 11	"	51821	Hudson Bay Co., Calgary.	2 "	50	" " " "	P. Burns & Co., Calgary.
" 12	"	51822	" " " " "	2 "	75	P. Burns & Co., Calgary.	"
" 12	"	51823	Pryce-Jones (Canada) Ltd., Calgary.	2 "	80	" " " "	"
" 12	"	51824	" " " " "	2 "	80	Swift Canadian, Calgary.	"

SESSIONAL PAPER No. 14

BUTTER.

Results of Analysis.									
Inspector's Report (Is not an expression of opinion).	Water.			Ash.	Butyro-refrac- tometer at 40°C.	Reichert Me- tal. No.	Fat by Differ- ence.	No. of Sample	Remarks and Opinion of the Chief Analyst.
	Separat- ed.	Incor- porated.	Total.						
<i>Continued.</i>									
	p.c.	p.c.	p.c.	p.c.			p.c.		
"Cloverdale" Brand	...	12.70	12.70	1.91	43.4	...	85.39	53251	Genuine.
"Brookside" "	...	11.51	11.51	1.64	43.8	...	86.85	53252	"
"Carson's" "	...	13.61	13.61	3.26	43.6	...	83.13	53253	"
"Globe Valley" "	...	13.32	13.32	2.95	44.0	...	83.73	53254	"
"Laurentia" "	...	13.86	13.86	3.38	43.6	...	82.76	53255	"
Fresh made Dairy Butter	...	9.95	9.95	0.66	43.0	...	89.39	53256	"
.....	13.15	13.15	4.28	44.2	.....	82.57	53257	"
"Crescent" Brand.	15.85	15.85	2.00	43.4	.....	82.15	53258	Slight deficiency in fat.
.....	12.43	12.43	2.57	43.8	.....	85.00	53259	Pass. Genuine.
A. W. R. MARKLEY, INSPECTOR.									
.....	12.92	12.92	2.00	42.6	.....	85.08	51813	Genuine.
.....	0.75	12.0.	12.77	3.06	43.2	.....	84.92	51814	"
.....	12.62	12.62	1.84	43.5	.....	85.54	51815	"
.....	12.07	12.07	2.10	42.8	.....	85.82	51816	"
.....	11.14	11.14	1.84	44.0	.....	87.02	51817	"
.....	9.82	9.82	2.00	43.8	...	88.18	51818	"
.....	8.60	8.60	2.30	43.9	.....	88.10	51819	"
.....	14.60	14.60	1.02	43.7	.....	84.38	51820	"
.....	16.94	16.94	1.59	42.8	...	81.47	51821	Excess of water and defi- ciency of fat. Adulter- ated.*
.....	13.05	13.05	2.44	44.2	...	84.51	51822	Genuine.
.....	12.45	12.45	1.59	43.0	...	85.96	51823	"
.....	13.95	13.95	2.38	43.3	.....	83.67	51824	"

* Said to have been sold as cooking butter, and not of first quality.

5 GEORGE V., A. 1915
BULLETIN No. 281-

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ALBERTA							
1913.							
Dec. 12	Butter.	51825	John Irwin & Co., Calgary.	2 lbs.	80	P. Pallesen, Calgary.	
" 12	"	51826	I. A. Nolan, Calgary.	"	80	" "	
" 13	"	51827	P. Burns & Co., Calgary	"	80	Mrs.	
" 13	"	51828	" " "	"	80	"	
" 13	"	51829	" " "	"	70	"	
" 13	"	51830	" " "	"	70	"	
" 13	"	51831	" " "	"	70	"	
" 13	"	51832	Plunkett & Savage, Calgary.	2 "	65	Provincial Creamery, Calgary.	
DISTRICT OF ROCKY MOUNTAINS							
Dec. 2	Butter.	49997	R. G. Ritchie, Cascade, B.C.	2 lbs.	75	Swift Canadian Co., Edmonton.	
" 2	"	49998	" " "	2 "	80		W. H. Malkins & Co., Vancouver.
" 2	"	49999	" " "	2 "	75	Alberta Prov. Govt. Creameries, Calgary.	
" 4	"	50006	N. L. McInnes & Co., Grand-Forks, B.C.	2 "	80	A. H. Campbell, Harwood, Ont.	
" 4	"	50007	" " "	2 "	90		A. Polade & Co., Vancouver.
" 4	"	50013	McKim & Le Roy, Grand-Forks, B.C.	2 "	80		P. Burns & Co., Nelson, B.C.
" 15	"	50019	Trail Grocery Co., Trail, B.C.	2 "	80	A. H. Campbell, Harwood, Ont.	
" 15	"	50024	T. Lauriente & Son, Trail, B.C.	2 "	90	Burlew Creamery Co., Burlew, Wash.	
" 15	"	50025	" " "	2 "	80	Harris Dairy Products Co., Camrose, Alta.	
" 17	"	50031	Agnew & Co., Rossland, C.B.	2 "	75	Swift Canadian Co., Edmonton.	
" 17	"	50043	T. P. Rogers, Rossland, B.C.	2 "	90	Hazelwood Co., Spokane.	
1914.							
Jan. 3	"	50044	P. Burns & Co., Nelson, B.C.	2 "	80		P. Burns & Co., Vancouver.
" 3	"	50045	" " "	2 "	80		"
" 3	"	50046	" " "	2 "	70	P. Burns & Co., Calgary.	
" 7	"	50056	R. B. Bell, Salmo, B.C.	2 "	90		P. Burns & Co., Nelson.
" 7	"	50057	" " "	2 "	80	The O. K. Creamery, Morningside, Alta.	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.								Remark and Opinion of the Chief of Analyst.
	Water.			Ash.	Butyro-refrac- tometer at 40°c.	Reichert Me- rical No.	Fat by Differ- ence.	No. of Sample.	
	Separat- ed.	Incorp- orate d.	Total.						
<i>Concluded.</i>									
	p. c.	p. c.	p. c.	p. c.			p. c.		
.....	...	12.78	12.78	3.30	43.5	.....	83.92	51825	Genuine.
.....	...	12.85	12.85	2.48	44.2	...	84.67	51826	"
.....	...	11.21	11.21	3.48	43.8	...	85.31	51827	"
.....	...	11.94	11.94	4.00	45.0	28.3	84.06	51828	"
.....	...	11.70	11.70	1.00	43.8	.....	87.21	51829	"
.....	...	14.90	14.90	1.66	43.7	.....	83.44	51830	"
.....	...	9.95	9.95	2.82	43.5	.....	87.23	51831	"
.....	...	13.50	13.50	2.61	43.6	...	83.89	51832	"

THOS. PARKER, INSPECTOR.

Brookfield .....	...	12.32	12.32	2.50	43.6	...	85.18	49997	Genuine.
New Zealand .....	...	13.92	13.92	1.62	44.1	...	84.46	49998	"
.....	...	11.39	11.39	2.11	43.5	...	86.50	49999	"
.....	...	12.38	12.38	2.81	44.6	30.2	84.81	50006	"
New Zealand .....	...	15.40	15.40	2.54	43.6	...	82.06	50007	Slight deficiency of fat.
Empress .....	...	13.48	13.48	2.90	44.2	...	83.62	50013	Pass. Genuine.
.....	0.20	10.90	11.10	2.42	44.7	29.6	86.68	50019	"
.....	...	13.05	13.05	0.92	42.4	...	86.03	50024	"
Golden Meadow...	...	10.97	10.97	1.86	43.4	...	87.17	50025	"
Sweet Clover...	...	10.59	10.59	1.87	43.2	...	87.54	50031	"
Hazelwood...	...	14.00	14.00	1.56	43.8	...	84.44	50043	"
Fancy New Zealand...	...	15.20	15.20	1.95	42.8	...	82.85	50044	"
Southern Cross, New Zealand.	...	14.65	14.65	1.85	43.2	...	83.50	50045	"
Alberta Dairy.....	...	15.42	15.42	2.52	43.5	...	82.06	50046	Slight deficiency in fat.
Fancy, N.Z .....	...	13.00	13.00	2.15	43.4	...	84.85	50056	Pass. Genuine.
.....	0.50	11.65	12.15	1.34	43.2	...	87.01	50057	"

5 GEORGE V., A. 1915
BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
1914.							
Jan. 23	Butter	50065	S. A. Speers, Creston, B.C.	2 lbs .	80		A. P. Slade & Co., Vancouver.
" 23	"	50068	Creston Mercantile Co., Creston, B.C.	2 " .	89		"
" 23	"	50069	" " "	2 " .	70	A. N. Couling, Creston, B.C.	
" 23	"	50070	" " "	2 " .	70	Jas. Haseroft, Creston, B.C.	

DISTRICT OF ROCKY MOUNTAINS—

1913.							
Dec. 9	Butter	57697	Windsor Grocery Co., 817 Government st., Victoria, B.C.	2 lbs..	75		S. Leiser & Co., Ltd., Victoria, B.C.
" 9	"	57698	" " "	2 " .	110	Cowichan Creamery Assn., Duncan, B.C.	
" 9	"	57705	Copas & Young, 633 Fort st., Victoria, B.C.	2 " .	70	F. R. Stewart, Victoria, B.C.	
" 9	"	57706	" " "	2 " .	90	Norwestern Creamery, Victoria, B.C.	
" 11	"	57714	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	2 " .	90		
" 11	"	57715	" " "	2 " .	100	Salt Spring Island Creamery, Ganges, B.C.	
" 11	"	57716	" " "	2 " .	80	T. Simmonds, Lost Lake, Victoria, B.C.	John Vaio & Sons, Victoria, B.C.
" 11	"	57721	Acton Bros., 1317 Douglas st., Victoria, B.C.	2 " .	70		P. Burns & Co., Ltd., Victoria, B.C.
" 11	"	57722	" " "	2 " .	75		Swift Canadian Co., Ltd., Victoria, B.C.
" 12	"	57729	Dixie H. Ross & Co., 1316 Broad st., Victoria, B.C.	2 " .	90	The Comox Creamery Assn., Ltd., Courtenay, B.C.	
" 12	"	57730	" " "	2 " .	70		B. Wilson & Co., Ltd., Victoria, B.C.
" 12	"	57737	James Adam, 1023 Cook st., Victoria, B.C.	2 " .	70		F. R. Stewart, Victoria, B.C.
" 16	"	57744	H. O. Kirkham, 714 Fort st., Victoria B.C.	2 " .	80	B. Wilson & Co., Ltd., Victoria, B.C.	
" 16	"	57745	" " "	2 " .	70	A. P. Slade & Co., Victoria, B.C.	
" 17	"	57752	Henry W. Driver, 856 Yates st., Victoria, B.C.	2 " .	70	P. Burns & Co., Ltd., Victoria, B.C.	
" 18	"	57756	Erskine & Co., 861 Johnston st., Victoria, B.C.	2 " .	70	A. P. Slade & Co., Victoria, B.C.	
" 18	"	57759	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	2 " .	70	"	

DISTRICT OF VICTORIA—

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refrac- tometer at 40° c.	Reichert Meissl No.	Fat by Differ- ence.		
	Seper- ated.	Incorpo- rated.	Total.						
<i>Concluded.</i>									
	p.c.	p.c.	p.c.	p.c.			p.c.		
Thames Valley, N.Z.,	13.40	13.40	0.86	43.2	.....	85.74	50065	Genuine.
Pakeha, N.Z.	14.62	14.62	3.24	42.8	.....	82.14	50068	Slight deficiency in fat.
.....	14.65	14.65	1.14	42.8	.....	84.21	50069	Pass. Genuine.
.....	10.40	10.40	0.79	42.8	.....	88.81	50070	"

D. O'SULLIVAN, INSPECTOR.

New Zealand Cream- ery	.....	14.60	14.60	0.97	43.2	.....	84.43	57697	Genuine.
Cowichan Creamery...	.....	11.65	11.65	1.24	43.0	.....	87.11	57698	"
Independent Creamery	.....	13.65	13.65	1.95	43.8	.....	84.49	57705	"
Northwestern Cream- ery.	.....	11.56	11.56	1.66	42.5	.....	86.78	57706	"
White Clover Cream- ery.	.....	9.85	9.85	2.03	43.8	.....	88.12	57714	"
Salt Spring Island Creamery.	.....	10.92	10.92	2.07	42.6	.....	87.01	57715	"
Ranch Butter...	5.00	9.35	14.35	1.15	43.0	.....	89.50	51716	"
Linden Grove.....	.....	12.73	12.73	1.49	44.5	27.5	85.78	57721	"
Fancy New Zealand Creamery.	.....	15.90	13.90	1.26	43.5	.....	84.84	57722	"
.....	.....	9.46	9.46	1.80	43.8	.....	88.74	57729	"
Auburn Creamery ....	.....	12.75	12.75	1.53	42.7	.....	85.72	57730	"
Eastern Townships...	.....	15.90	15.90	1.68	45.4	28.8	82.42	57737	"
B.C. Brand Special Creamery.	.....	14.20	14.20	0.10	43.4	.....	85.70	57744	"
Finest Quality, Clover Valley Creamery.	.....	15.05	15.05	3.32	43.2	.....	81.63	57745	Slight deficiency of fat. Pass.
Eureka Brand Cream- ery.	1.00	11.80	12.80	3.38	44.2	.....	84.82	57752	Genuine.
Pure Best Victoria Creamery.	14.50	14.50	3.28	43.6	82.22	57756	"
Mayflower Creamery...	14.08	14.08	3.14	44.2	82.78	57759	"

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BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1913.							
Dec. 31	Butter.. . . .	57767	P. Burns & Co., Ltd., 902 Government st., Victoria, B.C.	2 lbs..	70	P. Burns & Co., Ltd., Vancouver, B.C.	.....
" 31	"	57768	" "	2 " . .	75	.....	P. Burns & Co., Ltd., Vancou- ver, B.C.
" 31	"	57769	L. C. Adams Co., Ltd., Douglas and Johnston sta., Victoria, B.C.	2 " . .	60	S. Leiser & Co., Ltd., Victoria, B.C.

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BUTTER.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refra- ctometer at 40°c.	Reichert Me- tal.	Fat by Differ- ence.	
	Separated	Incorpo- rated.	Total.					
							No. of Sample.	

Concluded.

	p. c.	p. c.	p. c.	p. c.		p. c.		
Burns Carnation Creamery.....	12.45	12.45	2.00	44.2	.....	85.55	57767	Genuine.
New Zealand Creamery.....	14.40	14.40	1.73	43.0	83.87	57768	"
Choice Fresh Dairy. . .	0.50	9.20	9.70	1.97	43.0	88.83	57769
								"

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APPENDIX. BULLETIN No. 281—BUTTER (SPECIAL COLLECTION.)

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			
				Quantity.	Cents.			Water.	Butyro-retractometer at 40°c.	Reichert-Mo-	
DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.											
1913.											
Mar. 11	Battier.....	37001	Ulric Vachon, St. Grégoire, 1 lb., Montmorency.	1 lb.	30	Unknown	J. B. Renaud & Cie.	11.2	44.0	29.7	37001
" 12	"	37002	U. M. Côté, 23 Chemin St. 1 "	1 "	34	Stanislas Gagnon, Isle d'Orléans.	Manufacturer.	11.0	44.0	29.0	37002
" 12	"	37003	Fote, 121 rue Scott, 1 "	1 "	32	Unknown.	Enmond & Côté	8.6	44.0	.....	37003
" 12	"	37004	Mulcaire Bros., 21 rue St. 1 "	1 "	34	"	J. B. Renaud & Cie.	11.8	43.0	.....	37004
" 12	"	37005	Michel, Quebec, 49 rue 1 "	1 "	27	"	Harris Abattoir, Quebec.	7.5	43.0	.....	37005
" 12	"	37006	Artillery, Quebec, 372 rue 1 "	1 "	24	"	Dom. Fish & Fruit, Quebec.	11.0	44.0	.....	37006
" 12	"	37007	O. Lamontagne, 7 rue Del- 1 "	1 "	35	"	Enmond & Côté	9.2	43.5	.....	37007
" 13	"	37008	St. Jean, Quebec, 243 rue St. 1 "	1 "	28	"	Harris Abattoir, Quebec.	12.6	41.0	.....	37008
" 13	"	37009	G. Donaldson, 176 rue Dor- 1 "	1 "	33	"	J. B. Renaud & Cie.	7.0	42.5	.....	37009
" 13	"	37010	A. Pichette, 271 rue St. 1 "	1 "	34	"	Eugene Fortin, St. Jean Port-Joli.	9.0	42.0	.....	37010
" 13	"	37011	Cantin, Frère, 571 rue St. 1 "	1 "	27	"	Enmond & Côté	10.0	43.0	.....	37011
" 13	"	37012	La Cie Paquet, Ltée, 58 rue 1 "	1 "	28	"	"	11.6	43.0	.....	37012
" 14	"	37013	Verrut & Lepine, 135 rue de la 1 "	1 "	34	"	J. B. Renaud & Cie.	8.9	44.0	30.8	37013
" 14	"	37014	de la Couronne, Quebec, 35 rue de la 1 "	1 "	28	"	Enmond & Côté	13.0	43.5	37014

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"	44	"	37015	Elzéar Turcotte, Desfontaines, Quebec.	74 rue 1 " "	29	"	"	"	J. B. Renaud & Cie.	"	"	"	10 0	43 5	37015
"	14	"	37016	Cash Market, 463 Joseph, Quebec.	rue St. 1 " "	33	E. Poiré, St. Basile	Manufacturer.	"	"	"	"	"	11 0	42 5	37016
"	14	"	37017	O. Lacroix, 19 Joseph, Quebec.	rue St. 1 " "	35	"	"	"	"	"	"	"	8 9	43 0	37017
"	17	"	37018	L. P. Marcel, 61 Pont, Quebec.	rue du 1 " "	35	Unknown	"	"	J. B. Renaud & Cie.	"	"	"	9 8	44 0	37018
"	17	"	37019	O. Gauvin, 140 Paul, Quebec.	rue St. 1 " "	32	Hardy & Frère, St. Basile.	Manufacturers.	"	"	"	"	"	8 5	44 0	37019
"	17	"	37020	J. B. Renaud & Cie, bec.	Que-1 " "	30	Antoine Genois, St. Raymond.	Manufacturer.	"	"	"	"	"	8 6	44 0	37020
"	17	"	37021	L. Mercier, 113 Paul, Quebec.	rue St. 1 " "	30	Hardy & Frère, St. Basile.	Manufacturers.	"	"	"	"	"	10 0	44 0	37021
"	17	"	37022	Enond & Côté, 33 Finlay, Quebec.	Marché 1 " "	21	Kamouraska Dairy.	"	"	"	"	"	"	7 0	43 5	37022
April	10	"	37035	Butcher of Don. Fish Co., Quebec.	Fruit & 1 " "	"	"	"	"	E. G. Tobin, 296 rue Bayard, Quebec.	"	"	"	9 7	42 0	37035
"	10	"	37108	A. Doré, Sillery, Quebec.	1 " "	35	Unknown	"	"	Enond & Côté.	"	"	"	9 0	43 0	37108
"	11	"	37109	A. Parent, Beauport, Montmorency.	1 " "	30	"	"	"	J. B. Renaud & Cie.	"	"	"	8 7	42 0	37109
"	11	"	37200	Narcisse Fortier, Montmorency.	Sault 1 " "	28	"	"	"	N. Rioux & Cie.	"	"	"	7 5	42 0	37200

* Salt 1 84.

APPENDIX Y.

BULLETIN No. 282—CATTLE MEDICINES.

OTTAWA, March 13, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I have the honour to present a report dealing with 120 samples which may be classed as Cattle Medicines, although many of them possess very questionable value as such. A considerable number of these articles have come into the hands of our Inspectors as Stock Feeds; and I called your attention in August, 1912 (See Bulletin 241) to the fact that of 138 samples purchased as Stock Feeds in that year, 41 samples were found to belong more properly to the class of substances dealt with in this report.

The term Feeding Stuff is defined in the Act of 8-9 Edward VII as "Any Article offered for sale for the feeding of domestic animals, and feeds claimed to possess medicinal as well as nutritive properties, etc." It would appear that articles claiming to be Feeds must primarily possess nutritive properties, although the fact that they have medicinal value as well as nutritive value may not prevent their classification as Feeds.

It must be confessed that some degree of ambiguity attaches to the definition given in the Act. In many, perhaps in most of the samples herein reported, such nutritive value as may be possessed by the article, is due to components like linseed meal, bran, screenings, etc., employed rather as a diluent than as an essential part of the mixture. If purchased for the sake of its content in nutritive matter the price is out of all proportion to the value of the article; while if fed to stock for nutritive purposes only or chiefly, the drugs present would prove harmful, or even fatal, in the large doses which such usage would necessitate.

It is very desirable so to define Cattle Feeds and Cattle Medicines that the two classes shall not overlap; and I would suggest amendment of Section 2 (b) of the Feeding Stuffs Act, by omission of the phrase "and feeds claimed to possess medicinal as well as nutritive properties." When an article claims to possess medicinal properties it becomes a drug, or medicine, and ceases to be a food in the usual sense of that term.

No systematic inspection of this class of articles has been made since 1906. In that year a report upon 35 samples was published as Bulletin No. 117. I am unable to offer any comments upon the subject more to the purpose than those made by my predecessor in office in his letter of submission to the bulletin named. Speaking of the 35 samples then reported, Mr. Macfarlane says:—"It will be seen that only 5 out of the 35 samples are cattle medicines intended for use in cases of specified disease, while the other thirty are supposed to be applicable to all the ills that cattle flesh is heir to. This supposition is sustained by the claims actually made on behalf of about two-thirds of these samples on their labels or wrappers, and noted in the column headed 'Inspectors' report.' Others were sold in bulk and without any claim having been made. Some of the claims recorded would really be comical as

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regards the universal applicability of the medicines if it were not too serious a matter for the poor animals to whom they are to be administered.

The condition powders consist largely of linseed meal, or bran in which are distributed more or less of other substances which are supposed to have purgative, diuretic, haematonic or tonic effects. These powders are in fact the proprietary or patent medicines supposed to be good for farm animals. They vary very much as regards composition. Some condition powders contain chlorides and nitrates. In a fourth only the sulphates are present in considerable quantity. In some free sulphur appears to be the characteristic constituent, and, in others, antimony. It does not seem fair to the farmers that remedies differing so much in their ingredients should be sold under a common name, nor can it be advantageous to his animals to have medicines administered without much regard to the nature of the disease. The "regulators" contain, as a rule, iron salts, but otherwise are just as diverse in composition as the condition powders. Among the specific remedies the worm powders exhibit similar diversity in composition, and do not seem to contain the drugs usually prescribed by veterinarians as vermicides.

That there are remedies for specific diseases, used in veterinary practice, which are sold as such is no doubt the case, but as regards the universal cattle medicine or "cure all," it is very doubtful as to whether the farmer obtains value for his money. How to regulate the traffic in these it is difficult to say."

These remarks apply in a general way to the samples herein reported. Without going so far as to say that proprietary remedies claiming to possess curative properties of a vague and indefinite nature, and for this reason to be almost universally applicable, are without any value to the farmer, it is safe to say that these panaceas exhibit the same objectionable features that are found in the majority of patent remedies offered for human use.

They are for the most part composed of very cheap materials which their claim to be patent medicines enables to be sold at very high prices. A little thought will suffice to convince any one that truly potent and effective drugs cannot be present in an article to be used by an unskilled person, or fed at haphazard to an animal. Such drugs can only be employed with safety under the guidance of a properly qualified veterinarian.

The most valuable of these articles owe such value as they possess to their content in spices and similar material, intended to provoke appetite; and would be more correctly offered as Condiments than as Medicines.

It is to be noted that many of these articles contain "Screenings" as a filler. In some of these we have noted weed seeds, as was to be expected. Whether or not such seeds are vital, and therefore constitute adulteration under the Seed Control Act, has not been ascertained; but it is probable that many of them are capable of sprouting and growth. This point will be more particularly investigated when Cattle Medicines are next inspected.

This report will enable farmers to judge the nature of the articles with which it deals; and I beg to recommend its publication as Bulletin No. 282.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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Date of Collection.	Nature of Sample.		No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
					Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA								
1912.								
Feb. 9	Cattle	Medicine.	47051	Wentzells, Ltd., Halifax, N.S.	1 pkge	50	International Stock Food Co., Toronto.	Manufacturers.
" 21	"	"	47052	Halifax Seed Co., Halifax, N.S.	1 "	50	Pratt Food Co., Toronto.	"
" 21	"	"	47053	"	1 "	50	W. A. Jenkins Co., London, Ont.	"
1913.								
Mar. 6	"	"	46901	Nat. Drug Co., Halifax, N.S.	1 bot.	30	Daniel's, Boston, Mass.	"
" 7	"	"	46902	Kinleys, Ltd., Halifax, N.S.	1 pkge	25	International Stock Food Co., Toronto.	"
" 7	"	"	46903	Halifax Seed Co., Halifax, N.S.	1 "	25	Pratt Food Co., Toronto.	"
" 7	"	"	46904	"	1 lb.	10	Blatchford Co., Waukegan, Ill.	"
" 7	"	"	46905	J. R. Rawley Estate, Halifax, N.S.	1 bot.	50	Tuttle Elixir Co., Boston, Mass.	N. D. & Co., Halifax, N.S.
DISTRICT OF PRINCE EDWARD ISLAND								
1912.								
Feb. 21	Cattle	Medicine.	46188	Mathers & McLean, Ltd., Ch. Town, P.E.I.	4 lbs.	50	The Beaver Mfg. Co., Galt, Ont.	"
1913.								
Feb. 28	"	"	46399	J. G. Jamieson, Ch. Town, P.E.I.	1 pkge	25	Vendor.	"
" 28	"	"	46400	Geo. E. Hughes, Ch. Town, P.E.I.	1 "	25	"	"
" 28	"	"	46401	"	1 "	25	Fraser, Thornton & Co., Cookshire, P.Q.	"
" 28	"	"	46402	"	1 "	50	The Naisbett Co., Toronto.	"
Mar. 3	"	"	46403	Reddin Bros., Ch. Town, P.E.I.	1 "	25	Vendors	"
DISTRICT OF NEW BRUNSWICK								
Feb. 28	Cattle	Medicine.	50575	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 pkge	25	Fraser, Thornton Co., Ltd., Cookshire, P.Q.	"
Mar. 6	"	"	50576	The Canadian Drug Co., Ltd., St. John, N.B.	1 "	25	Dr. S. A. Tuttle Co., Boston, Mass., and Montreal.	"
April 16	"	"	50577	The Baird Co., Ltd., Woodstock, N.B.	1 box.	15	Vendors.	"
" 23	"	"	50578	B. J. Sharp, Sussex, N.B.	1 pkge	25	Nyall, New York, U.S.A.	"
" 24	"	"	50579	The Leger Drug Co., Ltd., Moncton, N.B.	1 "	35	The Acadia Drug Co., Moncton, N.B.	"

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CATTLE MEDICINES.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Pro- tein.	Water Extract.		
R. J. WAUGH, INSPECTOR.										
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	18.3	14.8	.....	.....	.....	.....	6.3	.....	Capsicum, charcoal, gentian, grain pro- ducts. Weed seeds.	47051
.....	22.2	15.1	0.3	Present.	.....	.....	14.3	.....	Gentian, Ginger, Scre- enings.	47052
.....	11.0	.....	6.2	"	.....	Present.	.....	.....	Fenugreek. Aniseed.	47053
Distemper cure.....	*	.....	.....	.....	.....	.....	.....	.....	.....	46901
.....	16.7	13.6	0.7	Present.	.....	.....	8.5	.....	Capsicum, charcoal, gentian, grain pro- ducts. Weed seeds.	46902
.....	25.0	16.5	.....	.....	.....	.....	12.4	.....	Gentian, Ginger, Scre- enings.	46903
Labelled. Old Eng- lish Tonic.	8.9	2.0	1.67	Present.	.....	.....	20.6	.....	Linseed.	46904
Labelled. Good for Colic.	†	.....	.....	.....	.....	.....	.....	.....	.....	46905
WM. A. WEEKS, INSPECTOR.										
Herbageum	15.85	10.3	.....	.....	.....	.....	20.1	.....	Charcoal, Bran, Gen- tian, Linseed.	46188
Condition Powder...	10.9	.....	0.5	Present.	Present.	.....	.....	.....	Gentian, Linseed, Sul- phur.	46399
"	†	.....	.....	.....	.....	.....	.....	.....	.....	46400
"	16.9	.....	.....	.....	.....	.....	.....	.....	Aniseed, Capsicum, Carbonate, Gentian, Sulphur, Middlings.	46401
.....	7.0	0.7	.....	.....	.....	.....	.....	.....	Fenugreek, Linseed.	46402
.....	22.8	5.5	4.7	Pre- sens.	Present.	Present.	.....	.....	Fenugreek, Linseed, Liquorice Rosin.	46403
JNO. C. FERGUSON, INSPECTOR.										
Woodbury's Condi- tion Powders.	13.4	.....	.....	.....	Present.	Present.	.....	.....	Capsicum, Carbonate, Gentian, Ginger, Fenugreek, Midd- lings, Sulphur.	50575
Tuttle's American Condition Powder.	11.9	7.4	.....	.....	"	.....	.....	.....	Middlings, Slightly bitter.	50576
"Granger" Condition Powder.	26.8	.....	2.1	Present.	"	Present.	.....	.....	Gentian, Linseed, Sul- phur.	50577
.....	20.1	5.4	4.4	"	"	.....	.....	.....	Aloes, Bloodroot, Gen- tian, Ginger, Liqu- orice, Rosin.	50578
Acadia Condition Powders	23.9	7.2	4.5	"	.....	.....	11.3	.....	Charcoal, Grain pro- ducts.	50579

* Liquid Preparation.

† Liquid Preparation, contains ammonia, camphor, turpentine and soap.

‡ Destroyed in transit.

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BULLETIN No. 282—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1912.							
Feb.	7 Cattle Medicine.	37388	Arthur Drolet, 714 rue St. Valier, Québec.	3 lbs.	75	International Stock Food Co., Toronto.	P. T. Legare, Québec.
"	9 " "	37389	Hamel & Bedard, 728 rue St. Valier, Québec.	3 " "	75	" "	" "
"	14 " "	37390	Jos. Masson, 808 rue Valier, Québec.	3 " "	30	Davis Lawrence, Montreal.	Manufacturers.
"	14 " "	37391	" " "	3 " "	50	Nyals, New York...	" "
"	14 " "	37392	" " "	3 " "	45	L. E. Martel, Québec	Manufacturer.
"	14 " "	37393	" " "	3 " "	75	Toronto Pharmacal Co.	Manufacturers.
"	14 " "	37394	" " "	3 " "	35	Dr. Ed. Morin. . . .	" "
"	14 " "	37395	Hamel & Bedard, 728 rue St. Valier, Que.	3 " "	1 05	Jos. Julien, Port Ronge	W. Brunet, & Cie, Québec.
"	14 " "	37396	P. Reneaud, 597 rue Valier, Québec.	3 " "	50	Pratt Food.....	A. E. Vallerand, Québec.
1913.							
March	6 " "	37193	A. E. Francoeur, 3794 rue St. Jean, Québec.	3 pkgs	1 05	Toronto Pharmacal Co., Toronto.	Manufacturers.
"	6 " "	37194	" " "	3 " "	45	" "	" "
"	7 " "	37195	Alfred Jolicœur, 338 rue St. Jean, Que.	3 " "	75	F. Stearns, Windsor, Ont.	" "
"	7 " "	37196	F. C. Delachevrotière, 224 rue St. Jean, Que.	3 " "	75	" "	" "
"	7 " "	37197	W. B. Rogers, 44 rue la Fabrique, Que.	3 " "	75	National Drug Co., Montreal.	" "

DISTRICT OF THREE RIVERS—

Mar.	17 Cattle Medicine.	57216	Louis Enos, St. Felix de Valois.	1½ lb.	40	Dr. Gatien, St. Hyacinthe.	" "
"	19 " "	57236	Louis Bellerose, St. Felix de Valois.	1 lb.	15	Z. Dufresne, Montreal.	" "
"	22 " "	57241	C. Barrette, Joliette.	1 " "	50	International Stock Food Co., Toronto.	" "
"	22 " "	57245	Magnan, Frères, Joliette.	1 pkg.	25	E. St. Jean, Montreal.	" "
"	22 " "	57247	Theop. Enos, St. Felix de Valois.	1 " "	15	Pratt Food Co., Philadelphia.	" "

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CATTLE MEDICINES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common salt.	Sulphuric Acid in Sul- phates.	Green Cop- pers.	Nitre.	Antimony.	Crude Protein.	Water Extract.		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	18.75	15.9					12.1		Capsicum, charcoal, gentian, grain pro- ducts.	37388
	5.25		0.5	Pre- sent			15.0		Ginger, capsicum, char- coal, gentian, carbon- ate, grain products.	37389
	9.40		0.9	"	Pre- sent				Gentian, linseed.	37390
	20.4	5.0	2.5	"	"				Bloodroot, gentian, gin- ger, liquorice, rosin.	37391
	20.3				"	Pre- sent			Fenugreek, gentian, ginger, linseed and other drugs.	37392
	26.20	10.5	0.1	Pre- sent	"				Gentian, yellow ochre, sulphur, grain pro- ducts.	37393
	9.5	1.9			"				Sulphur, bitter, oil cake.	37394
	30.0	4.3	0.6	Pre- sent	"				Carbonate, ginger, charcoal, sulphur, grain products, lin- seed.	37395
	17.7	12.2					13.0		Gentian, screenings.	37396
	15.55	3.56			Pre- sent			19.54	Fenugreek, sulphur, wild seeds.	37193
	17.64	0.82	4.76	Pre- sent				27.9	Fenugreek, linseed.	37194
	19.8	3.04	4.15	"		Pre- sent		28.30	Linseed, mustard, liquorice root, sul- phur.	37195
	20.6	3.19	5.03	"		"		31.8	Linseed, liquorice root, rosin, sulphur, Fenu- greek.	37196
	15.7				Pre- sent				Capsicum, gentian, resin, other drugs.	37197

DR. V. P. LAVALLÉE, INSPECTOR.

Conditional Powders	31.26	4.36		Pre- sent				40.30	Charcoal, Fenugreek, skunk cabbage, rosin, carbonate, alum.	57216
Quinquinal....	18.7	9.0					11.6		Bole, middlings, slightly bitter.	57236
	10.0	1.39		Pre- sent				31.94	Brewers grains, liquo- rice root.	57241
	6.2		1.6	"		Pre- sent			Aloes, middlings, rosin.	57245
	14.3	8.7	0.2	"			11.5		Gentian, screenings.	57247

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BULLETIN No. 282—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1912.							
Feb. 19	Cattle	39057	Berthiaume & Lanoue, Faruham.	1 can.	50	American Pure Food Co., Montreal.	
" 19	Medicine.	39058	J. E. Baillargeon, Farnham.	3 pkgs	25	International Stock Food Co., Toronto	
" 21	"	39059	Vaughan Bros., Magog.	1 "	50	Pratts Food Co., of Canada, Ltd., Toronto.	
" 21	"	39060	B. E. Goyette, Magog.	1 "	25	Nat. Drug & Chem. Co., Montreal.	
" 27	"	39061	T. Ledoux, St. Guillaume.	1 "	25	The Interprovincial S. F. Co., St. Basile.	
" 27	"	39062	E. Sylvestre, St. Guillaume.	1 "	25	The Joliette Chem. Co., Ltd., Joliette.	
" 27	"	39063	G. E. Aubin, Actonville.	1 "	50	Dr. Fréchette, St. Hyacinthe.	
" 27	"	39064	A. Chicoine, Actonville.	1 "	25	Frazier, Thornton & Co., Cookshire.	
" 28	"	39065	O. T. Piche, Drummondville.	1 "	50	The Hackney S. F. Co., Ltd., Toronto	
" 28	"	39066	T. A. Bourgault, Drummondville.	1 "	25	J. T. Hebert, Drummondville.	
" 28	"	39067	A. Birtz, Drummondville.	1 "	40		J. N. Potvin, Drummondville
" 28	"	39068	R. Cardin, Drummondville.	1 "	50	The Beaver Mfg. Co., Ltd., Galt.	
1913.							
Mar. 13	"	1555	F. Morency, Ste. Marie	1 can.	18		Unknown.
" 13	"	1556	S. Corriveau, Scotts	1 "	25	Pratt Food Co., Philadelphie.	
" 17	"	1557	A. Millette, Windsor Mills.	1 "	25	J. Burton, Sherbrooke.	
" 17	"	1558	J. Masse & fils, Roxton Falls.	1 "	50	International Stock Food Co., Minneapolis.	
" 18	"	1559	R. Cardin, Drummondville.	1 "	25	The D. & D. Nat. Med. Co., St. Basile Station.	

DISTRICT OF MONTREAL—

Mar. 5	Cattle	51231	Win. Ewing Co., McGill st., Montreal.	1 can.	50	Win. Rust & Sons, New Brunswick, N.J.	
5	"	51232	O. T. Pinck, 348 Notre Dame st. West, Montreal.	1 pkg.	25	Vendor.	

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CATTLE MEDICINES

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common Salt.	Sulphuric Acid in Sul- phates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.		
J. C. ROULEAU, INSPECTOR.										
Quinquinol.....	12.6	6.3	0.1	.....	.....	.....	16.8	.....	Bole, bran, gentian.	39057
International.....	19.8	14.9	0.1	Pre- sent.	.....	.....	13.7	.....	Capsicum, charcoal, gentian, ginger, grain products, lin- seed.	39058
Pratts.....	17.9	9.2	.....	.....	.....	.....	11.9	.....	Gentian, ginger, scre- enings, some arom- atic.	39059
Anglo Saxon.....	12.7	5.3	0.9	Pre- sent.	Pre- sent.	.....	.....	.....	Charcoal, gentian, gin- ger, middlings, sul- phur.	39060
Interprovincial.....	20.0	8.1	.....	.....	.....	.....	16.9	.....	Gentian, charcoal, grains products lin- seed.	39061
Vinks.....	38.2	32.5	1.3	Pre- sent.	Pre- sent.	Pre- sent.	.....	.....	Gentian, liquorice, grains products.	39062
Perfection.....	24.4	4.6	3.6	"	"	.....	.....	.....	Bloodroot, fenugreek, ginger, linseed, li- quorice, rosin, sul- phur	39063
Acme.....	5.5	.....	.....	.....	.....	.....	17.2	.....	Cha coal, fenugreek, middlings.	39064
Hackney.....	18.2	13.2	0.4	Pre- sent.	.....	.....	13.0	.....	Capsicum, charcoal, gentian, grain pro- ducts.	39065
L'Acadienne.....	19.2	10.1	0.4	"	.....	.....	22.1	.....	Linseed, fenugreek, middlings, sulphur.	39066
Purina.....	18.7	16.9	0.2	"	.....	.....	17.4	.....	Linseed, corn.	39067
Herbageum.....	13.3	10.1	.....	.....	.....	.....	24.2	.....	Bran, charcoal, lin- seed, gentian.	39068
Mand S.....	10.0	.....	1.6	Pre- sent.	Pre- sent.	Pre- sent.	.....	.....	Fenugreek, gentian, linseed.	1555
Reg. No. 448.....	20.4	2.1	.....	.....	.....	.....	12.0	.....	Gentian, ginger, bole, screenings.	1556
Pick-Me-Up.....	18.2	.....	5.5	Pre- sent.	Pre- sent.	.....	.....	.....	Grain products, bole, rosin, gentian.	1557
.....	8.9	.....	0.8	.....	.....	.....	13.2	.....	Bole, bran, rosin.	1558
.....	21.8	20.2	.....	.....	.....	.....	13.9	.....	Middlings.	1559

J. J. COSTIGAN, INSPECTOR.

Rusts Haven's Climax Powder.	7.25	.....	.....	Pre- sent.	.....	.....	10.0	.....	Aniseed, linseed, li- quorice root.	51231
Youatt's Condition Powder.	23.4	5.5	Pre- sent.	Charcoal, fenugreek, linseed, sulphur.	51232

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BULLETIN No. 282—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1913.							
Mar.	5 Cattle Medicine.	51233	A. Guertin, 538 Notre Dame st. west, Montreal.	1 bot.	50	International Stock Food Co.	.....
"	5 "	51234	Leo. P. Ryan, 545 Notre Dame st., west, Montreal.	1 "	25	The Wingate Chem. Co.	.....
"	5 "	51235	Standard Pharmacy, 549 St. Jacques st., Montreal.	1 "	25	New York & London Drug Co.	.....

DISTRICT OF OTTAWA—

1912.							
Feb.	6 Cattle Medicine.	50176	J. W. McKay, Ottawa.	3 lbs..	9	The Beaver Mfg. Co., Ltd., Galt, Ont.	Mfrs.
"	6 "	50181	" " "	3 pkgs	75	International Stock Food Co., Minneapolis.	"
1913.							
Feb.	28 "	51760	S. G. Lindsay, Aylmer, P.Q.	1 pkg.	25	International Stock Food Co., Toronto.	"
"	25 "	51761	B. F. Smith, Winchester	1 " ..	50	W. A. Jenkins Mfg. Co., London, Ont.	"
"	28 "	51762	R. Picard, Hull	1 " ..	25	Hull Medical Hall, Hull.	"
Mar.	4 "	51763	T. T. Beattie, Ottawa.	1 " ..	50	Pratt Food Co., Philadelphia, Pa.	"
"	7 "	51764	" " "	1 " ..	50	The Hackney Stock Food Co. Ltd., Toronto.	"

DISTRICT OF KINGSTON—

1912.	Cattle Medicine.	49551	J. McLeod, Kingston.	3 lbs..	1 00	W. A. Jenkins, London, Ont.	.....
1913.							
Feb.	21 "	53072	Geo. Gibson, "	1 pkg.	25	Pratt Food Co., Toronto.	.....
"	21 "	53073	W. P. Peters, "	1 " ..	50	International Stock Food Co., Toronto.	.....
"	21 "	53074	J. B. McLeod, "	1 " ..	25	Stearns, Windsor, Ont.	.....
"	24 "	53075	C. Rathman, Belleville.	1 " ..	25	International Stock Food Co., Toronto.
"	25 "	53076	W. H. Semple, Cobourg.	1 " ..	25	H. Semple, Cobourg.

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CATTLE MEDICINES.

Results of Analysis.										Other ingredients identified.	No. of Sample.
Inspector's Report. (Is not an expression of opinion).	Ash.	Common Salt.	Sulphuric Acid in Sul- phates.	Green Cop- persa.	Nitre.	Antimony.	Crude Protein.	Water Extract.			
<i>Concluded.</i>											
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
International Heave Cure.	10.3	1.6	2.0	.....	.....	.....	13.2	.....	Bole, middlings, rosin.	51233
Harry Bradley's Tonic Condition Powder.	12.6	.....	.....	.....	Pre- sent.	Pre- sent.	.....	.....	Fenugreek, linseed....	51234
Nyall's Condition Powder.	24.1	5.1	5.7	Pre- sent.	"	"	.....	.....	Aloes, bloodroot, gin- ger, rosin, sulphur.	51235

J. A. RICKEY, INSPECTOR.

Herbageum.....	14.1	10.0	0.1	.....	.....	.....	.....	.....	Bran, charcoal, gen- tian, linseed.	50176
.....	18.7	14.7	0.1	Pre- sent.	.....	.....	.....	.....	Capsicum, charcoal, gentian, grain pro- ducts.	50181
International.....	12.07	3.36	.....	.....	.....	.....	22.23	.....	Oil cake, linseed, mus- tard, grain products.	51760
Royal Purple Stock Specific.	9.73	.....	4.53	.....	.....	.....	12.45	.....	Linseed, liquorice root, aniseed, gentian.	51761
"Our Own" Condi- tion Powder.	17.9	1.14	4.80	Pre- sent.	Pre- sent.	Pre- sent.	26.9	.....	Fenugreek, liquorice root, gentian.	51762
Pratt's Calf Tonic...	17.26	4.82	.....	"	"	.....	22.56	.....	Grain products, tar- taric acid.	51763
Hackney Stock Tonic.	14.88	4.10	.....	"	.....	.....	26.25	.....	Bran, charcoal.	51764

JAS. HOGAN, INSPECTOR.

Royal Purple.	13.4	.....	6.4	Pre- sent.	.....	.....	23.0	.....	Fenugreek, gentian, linseed and sulphur.	45551
.....	24.10	2.82	7.10	.....	Pre- sent.	.....	29.66	.....	Fenugreek, gentian, oil cake.	53072
.....	47.4	44.8	0.2	Pre- sent.	Gentian, wormseed, grain products.	53073
.....	*	53074
.....	*	53075
.....	*	53076

* Destroyed in transit.

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Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1913.							
Feb. 25	Cattle Medicine.	51588	J. A. Johnstone & Co., 171 King st., east, Toronto.	1 lb.	20		
" 28	"	51589	The Veterinary Specialty Co., 163 Dundas st., Toronto.	1 "	25		
Mar. 7	"	51590	International Stock Food Co., 92 Adelaide st., east, Toronto.	1 "	25		
" 7	"	51591	Pratt Food Co. of Canada, Ltd., 85 Terauley st., Toronto.	1 "	25		
" 10	"	51592	Dominion Stock Food Co., Duncan st., Toronto.	1 "	50		

DISTRICT OF HAMILTON—

April 23	Cattle Medicine.	57151	Robt. Ralston & Co., 26 McNab st., south, Hamilton.	5 lbs.	50	Vendors	
" 23	"	57152	G. C. Briggs & Sons, 122 King st., west, Hamilton.	2 pkg.	25	"	
" 23	"	57153	Thos. Moffatt, 20 King William st., Hamilton.	2½ lb.	25	W. H. Wodehouse, Hamilton.	
" 24	"	57154	Blaicher & Réche, John and Main, sts., Hamilton.	1 pkg.	25	Vendors	
" 24	"	57155	The Jas. Dunlop Co., Ltd., 127-131 John st., south, Hamilton.	1 "	50	The W. A. Jenkins Mfg. Co., London, Ont.	

DISTRICT OF LONDON—

1912.							
Feb. 9	Cattle Medicine.	47890	W. J. Heaman, Exeter.	3 jars.	25	International Stock Food Co., Toronto.	
" 20	"	48204	Ford & McLeod, Clinton.	3 "	50	W. A. Jenkins Mfg. Co., London, Ont.	
" 20	"	48206	"	3 "	25	Pratt Food Co., Toronto.	

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CATILE MEDICINES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common Salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitric.	Antimony.	Crude Pre- tein.	Water Extract.		

H. J. DAGER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Labelled. The Stock- man's Favourite Yorkshire Stock Food. Reg. No. 43.	15.9	5.7	1.7	Pre- sent.	...	Pre- sent.	.....	...	Fenugreek, middlings, rosin, gentian, sul- phur.	51588
Labelled. Drs. Van- zant & Waring's Stock Tonic and Blood Purifier.	22.5	10.8	...	.....	Pre- sent.	.....	.....	.....	Gentian, middlings, carbonate.	51589
Labelled. Inter- national Medicinal Stock Food Tonic. Strictly Medicinal.	15.99	3.90	1.86	.....	.....	.....	.....	25.59	Oil cake, linsed, mus- tard, grain products.	51590
Pratt's, of Canada, Ltd., Animal re- gulator.	11.03	4.50	...	Pre- sent.	.....	.....	.....	24.68	Fenugreek, charcoal, grain products.	51591
Dominion Stock Food.	15.54	0.61	...	.....	.....	.....	.....	20.91	Linseed, sulphates.	51592

H. J. DAGER, ACTING INSPECTOR.

Labelled. Reg. No. 19. Can. gold medal, Kingston, Jamaica Food.	13.84	4.49	.....	.....	Pre- sent.	.....	.....	25.66	Linseed, Skunk cab- bage.	57151
Labelled. Wade's Condition Powder.	39.46	2.82	.....	.....	.....	Pre- sent.	.....	49.39	Bran, Fenugreek, Charcoal, Linseed, Crystals.	57152
Labelled. Wodeho- use's Animal Invi- gorator.	7.15	1.45	.....	.....	.....	.....	.....	11.46	Rosin, Linseed, Grain products.	57153
Labelled. Reche's Condition Powder.	30.7	10.6	1.7	Pre- sent.	Pre- sent.	Pre- sent.	.....	..	Gentian, Linseed, Rosin, Sulphur.	57154
Royal Purple Stock Specific.	16.8	.....	2.23	.....	.....	.....	.....	17.4	Linseed, Liquorice Root.	57155

J. D. TALBOT, INSPECTOR.

.....	19.1	16.3	.....	.....	.....	.....	.....	12.6	Capsicum, Gentian, Grain products, Charcoal.	47890
Royal Purple Stock Specific.	10.4	.....	6.2	Pre- sent.	Pre- sent.	Pre- sent.	.....	.....	Fenugreek, Linseed, Sulphur.	48204
Pratt Conditioner Reg. No. 448.	10.0	7.9	0.2	14.7	Gentian, Linseed, Other seeds.	48206

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BULLETIN No 282

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
Feb. 27	Cattle	47942	A. J. Morgan, London, Ont.	1 pkg.	50	Drs Hess & Clark, Cleveland, U.S.A.	
" 27	Medicine.	47943	" "	1 "	25	Pratt Food Co., Toronto.	
" 27	"	47944	" "	3 tins.	150	Conkey Co., Cleveland, U.S.A.	
" 27	"	47945	W. A. Jenkins, London, Ont.	1 pkg.	Nil.	Vendor	
" 27	"	47946	F. W. Heighway, London, Ont.	1 "	50	Dr E. W. Heighway, Masonville.	

DISTRICT OF MANITOBA—

1912.							
Feb. 15	Cattle	48631	Olafsson Grain Co., Winnipeg.	4 lbs.	50	International Stock Food Co., Toronto.	Scott Bathgate & Co., Winnipeg.
" 15	Medicine.	48632	Carnefac Stock Co., Winnipeg.	3 "	50	W. G. Douglas, Winnipeg.	
" 15	"	48633	Laing Bros., Winnipeg.	3 "	25	Colonial Stock Food Co., Weston, Ont.	
" 15	"	48634	" "	3 "	50	Pratt Food Co. of Canada, Ltd.	
1913.							
Mar. 10	Cattle	48866	" "	1 pkg.	25	Pratt Food Co.	
" 10	Medicine	48867	A. J. Brown & Co., Winnipeg.	1 "	25	Nyal Drug Co., New-York and London.	
" 10	"	48868	The Mayer Co., Winnipeg.	1 "	50	Vendors	
" 10	"	48869	" "	1 "	50	"	
" 15	"	48869	Elmwood Drug Store, 303 ave. Nairn, Elmwood, P.O.	1 "	75	Nyal Drug Co., New-York and London.	

DISTRICT OF CALGARY—

1912.							
Mar. 9	Cattle	44151	Hegler & Hegler, Edmonton.	3 lbs.	25	Drs Hess & Clark, Ashland, U.S.A.	
" 9	Medicine.	44152	" "	3 "	25	International Stock Food Co., Minneapolis.	
" 19	"	44153	A. E. McKenzie Ltd., Calgary.	3 "	25	G. E. Lee Co., Omaha, Nea.	
" 19	"	44154	" "	3 "	75	The G. E. Conkey, Co., Cleveland, U.E.	

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CATTLE MEDICINES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							Other ingredients identified.	No. of Sample.
	Ash.	Common Salt.	Sulphuric Acid in Sul- phates.	Green Copperas.	Nitric.	Antimony.	Crude Protein.	Water Extract.	

JNO. TALBOT, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Labelled: Dr. Hess Worm Powder.	19.2	.....	6.86	Pre- sent.	.....	.....	.....	27.04	Bran, aniseed, gen- tian, carbonate.	47942
Pratt's Animal Regu- lator.	21.1	17.4	.....	.....	.....	.....	12.0	.....	Gentian, ginger, fenugreek, screenings.	47943
Conkey's Worm Re- medy.	8.9	.....	.....	.....	.....	.....	.....	.....	Naphtalene.	47944
Royal Purple Stock Specific.	11.73	.....	5.97	Pre- sent.	.....	.....	.....	17.07	Fenugreek, linseed, Aniseed, liquorice root.	47945
Dr. Heighway Stock Conditioner	15.0	.....	5.34	.....	.....	Pre- sent.	.....	22.19	Linseed, charcoal, Weed seeds.	47946

A. C. LARIVIÈRE, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	19.0	11.8	0.4	Pre- sent.	.....	.....	13.7	.....	Capsicum, gentian, charcoal, grain pro- ducts.	48631
.....	12.0	4.1	8.1	"	.....	.....	18.9	.....	Carbonate, charcoal. Linseed, some bitter.	48632
.....	35.9	21.0	9.5	"	.....	.....	7.5	.....	Gentian, ginger, nut shells.	48633
.....	22.3	16.9	.....	.....	.....	.....	12.0	.....	Gentian, ginger, scre- enings.	48634
Condition Powders.	12.6	4.4	.....	.....	.....	.....	12.6	.....	Gentian, screenings.	48866
.....	24.1	4.7	5.5	Pre- sent.	Pre- sent.	.....	.....	.....	.....	48867
Worm Powders.	13.7	.....	8.3	"	.....	.....	.....	.....	.....	48868
Condition Powders.	26.1	0.2	4.4	"	Pre- sent.	.....	.....	.....	.....	48869
"	22.6	5.5	4.2	"	"	.....	.....	.....	.....	48869

R. W. FLETCHER, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	42.5	34.5	1.5	Pre- sent.	Pre- sent.	.....	.....	.....	Charcoal, gentian, Grain products.	44151
.....	5.2	.....	0.4	"	.....	.....	16.6	.....	Capsicum, carbonate, Charcoal, gentian, ginger, middlings.	44152
.....	18.2	9.7	1.9	"	Capsicum, charcoal, grain products, gen- tian, linseed.	44153
.....	20.0	4.3	"	Charcoal, gentian, grain products.	44154

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BULLETIN No. 282

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NELSON—							
1912.							
Feb. 13	Cattle Medicine.	49602	J. H. Clements, Kamloops, B.C.	1 pkg.	50	International Stock Food Co., Minneapolis.	
20	"	49630	Harvey Bailey, Ashcroft, B.C.	5 lb.	60	Beaver Mfg. Co., Galt, Ont.	
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
Mar. 11	Cattle Medicine.	49825	Rutherford Drug Co., Nelson, B.C.	1 pkg.	25	Vendors.	
" 11	"	49826	" " "	1 "	25	"	
" 11	"	49829	Poole Drug Co., Nelson, B.C.	1 "	25	New York & London Drug Co., New-York	
" 11	"	49830	" " "	1 "	50	Pratt Food Co., Philadelphia.	
" 11	"	49831	Brackman Ker, M. Co., Nelson, B.C.	1 "	25	"	
DISTRICT OF VANCOUVER—							
Mar. 11	Cattle Medicine	53451	Nat. Drug and Chem. Co., Vancouver, B.C.	1 lb.	25	Vendors	
" 11	"	53452	Broadway Pharmacy, Broadway & Granville, Vancouver, B.C.	1 pkg.	25	Nyals, Ltd., Windsor, Ont.	
" 14	"	53453	Marrett & Reid, 7th Ave. and Main, Vancouver, B.C.	1 "	25	LePatourel & McRae, Vancouver, B.C.	
" 14	"	53454	J. B. Boyle, Kitselano, B.C.	1 "	50	Henderson Bros., Vancouver, B.C.	
DISTRICT OF VICTORIA—							
Mar. 11	Cattle Medicine.	53539	John Cochrane, 1300 rue Douglas, Victoria, B.C.	1 lb.	25	New York & London Drug Co., New-York.	
" 11	"	53540	Hall & Co., 702 rue Yates, Victoria, B.C.	1 "	25	Canadian Pharmacal Assn., Toronto, Ont.	
" 18	"	53541	Fernwood Pharmacy, 1301 Gladstone Ave., Victoria, B.C.	1 "	25	Stearns, Windsor, Windsor, Ont.	
" 28	"	53542	Thos. Shotbolt, 589 rue Johnston, Victoria, B.C.	1 "	50	Vendor.	
" 28	"	53543	Scott & Peden, 3-5-7 Store st., Victoria, B.C.	1 "	1.00	John Potter & Sons, Sydney, Australia.	

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CATTLE MEDICINES.

Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common Salt.	Sulphuric Acid in Sul- phates.	Green Copperas.	Nitres.	Antimony.	Crude Protein.	Water Extract.		
THOS. PARKER, INSPECTOR.										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	20.0	14.7	..	..	..	..	12.9	..	Capsicum, charcoal, gentian, grain pro- ducts.	49602
	15.4	10.5	0.1	Pre- sent.	..	..	21.4	..	Charcoal, gentian, lin- seed, some aromatic.	49630

THOS. PARKER, INSPECTOR.

Condition Powder...	35.5	9.2	9.4	Pre- sent.	Pre- sent.	..	..	..	Carbonate, linseed, ro- sin, sulphur, some bitter.	49825
Horse Worm Powder	39.9	22.8	1.4	"	..	Pre- sent.	..	..	Fenugreek, tartare- mic wormseed.	49826
Condition Powder...	23.7	4.9	4.4	"	Pre- sent.	..	..	..	Aloes, bloodroot, gen- tian, liquorice, rosin.	49829
" " "	14.4	5.0	..	..	..	..	12.7	..	Gentian, screenings.	49830
"Animal Regulator."	11.1	9.0	..	..	..	..	9.8	..	Gentian, grain pro- ducts, little charcoal.	49831

J. F. POWER, INSPECTOR.

Condition Powder...	21.1	..	..	..	Pre- sent.	Pre- sent.	..	..	Linseed, rosin, sulphur.	53451
" "	21.7	5.3	3.9	Pre- sent.	"	..	..	..	Bloodroot, gentian, ginger, liquorice, rosin.	53452
" "	13.91	0.67	6.20	"	..	..	..	15.94	Bark, gentian	53453
" "	20.8	..	..	..	Pre- sent.	..	..	26.19	Rosin, linseed, sul- phur, senna.	53454

D. O'SULLIVAN, INSPECTOR.

..	24.8	4.4	2.4	Pre- sent.	..	..	..	..	Bloodroot, ginger, li- quorice, rosin, sul- phur.	53539
..	36.5	8.0	9.6	"	Pre- sent.	..	..	..	Linseed, rosin, sulphur	53540
..	15.3	0.5	3.7	"	"	Pre- sent.	..	..	Bicarbonate, blood- root, gentian, other drugs.	53541
..	22.0	..	..	..	"	"	..	..	Capsicum, fenugreek, gentian, rosin, sul- phur.	53542
..	16.9	..	10.2	..	..	..	..	..	Assafoetida, bole, lin- seed, rosin, sulphur.	53543

APPENDIX Z

BULLETIN No 283—ALE (BEER)

OTTAWA, March 26, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report dealing with 75 samples sold as Ale or Beer These were obtained by our inspectors throughout Canada in September, October and November of last year.

Table I. Shows the sources of the samples ; the prices paid for them, the names of manufacturer or furnisher and remarks made by the inspector.

Table II. Gives the numerical results of analysis in the same order as that of the samples in Table I.

Table III. Contains the numerical results of analysis arranged in such order as to render comparable among themselves those obtained with ales of similar name. With regard to this table it is to be observed that the same manufacturer may offer ales of different brands or strengths or quality, so that it may not in every case mean actual carelessness in manufacture when the analytical results obtained with ales which appear in juxtaposition in this table, show considerable differences. It may be that the information furnished to us with the samples was insufficient to make evident these different brands.

This explanation is made as just to the manufacturer ; but a careful study of the Table III shows that, among different samples of ale having the same nominal origin, a decided similarity is found. This must be taken to indicate a systematic method obtaining in manufacture, and great care taken in the following out of such method.

An Order in Council of February 8, 1911 (published as Circular G. 947) defines malt liquors, as below :—

6. MALT LIQUORS AND MALT BEVERAGES.

1. Malt liquor is a beverage made by the alcoholic fermentation of an infusion, in potable water, of barley malt and hops.

2. Ale or beer is a beverage produced by top fermentation of an infusion, in potable water, of barley malt and hops ; with or without other starchy and saccharine matters, and contains in one hundred (100) cubic centimetres (20° C.) not less than two and seventy-five one-hundredths (2.75) grammes of alcohol (equivalent to six (6) per cent by volume of proof spirits), nor less than three and one half (3.5) grammes of extract, and not less than eleven one-hundredths (0.11) gramme of ash, chiefly potassium phosphate.

3. Porter and stout are varieties of ale or beer made in part from highly roasted malt, or barley, and agree, in other respects, with the requirements for ale and beer.

4. Lager beer is beer produced by bottom fermentation which contains, in one hundred (100) cubic centimetres (20° C.) not less than three and one half (3.5) grammes of extractive matter and eleven one-hundredths (0.11) gramme of ash, chiefly potassium phosphate, and not less than two and fifty-one-hundredths (2.50) grammes of alcohol, equivalent to four and four-tenths (4.4) per cent by volume, of proof spirits.

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5. Light beer is a beer containing in one hundred (100) cubic centimetres, at 20° C. less than two grammes of alcohol (equivalent to less than four and four-tenths (4.4) per cent by volume of proof spirits).

Except in its minimum alcohol value it will be seen that lager beer is defined with the same constants as ale.

The extractive matter is slightly below legal requirements in 7 samples, and decidedly low in 8 samples of the present collection.

It is hoped that a study of the analytical numbers herein placed on record will enable us to so interpret them as to arrive at a judgment regarding the mode of manufacture of ales, and the materials employed. This difficult problem is now engaging the attention of other chemists, and some encouraging results have been obtained. In order to its solution it will be necessary to make experimental research upon ales of known origin; and it has been found impossible with my limited staff to carry the work to completion.

In order that these analytical data may be available to those interested, I would respectfully advise publication of the report as Bulletin No. 283.

I have the honour, to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 283—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1913.								
Oct. 22	Ale	54301	Halifax Breweries, Ltd., Halifax, N.S.	3 bots.	Nil.	Vendors.		India Pale Ale.
" 22	"	54302	Kelley & Glassey, Halifax, N.S.	3 " .	40	McKwen, Edinborough, Scot.	Mfr.	Scotch Ale.
" 22	"	54303	" "	3 " .	45	Bass & Co., London, Eng.	G. C. Hibberts & Co., London, Eng.	Pale Ale.
" 22	"	54304	A. Keith & Son, Halifax, N.S.	3 " .	Nil.	Vendors.		"
" 22	"	54305	Oland & Son, Halifax, N.S.	3 " .	"	"		"

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Sept. 29	Ale (beer)	50362	Simeon Jones, Ltd., St. John, N.B.	3 bots.	50	Vendors.		
" 24	"	50363	Ready's Breweries, Ltd., St. John, N.B.	3 " .	50	"		Ready's Pale Ale, Diamond R.
" 29	"	50364	Comeau & Sheehan, St. John, N.B.	3 " .	75	Alexander Keith & Son, Halifax, N.S.		Nova Scotia Brewery, "Veritas Vincent."
" 29	"	50365	John Labatt, Ltd., St. John, N.B.	3 " .	60	John Labatt, Ltd., London, Ont.		India Pale Ale.
" 29	"	50366	R. Sullivan & Co., St. John, N.B.	3 " .	75	Bass & Co., Burton Trent, Eng.		India Pale Ale, "Hawk's Head."

DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.

Sept. 23	Ale (beer)	56144	G. Pepin, 132, rue Massue, Quebec.	3 bots.	37	Fox Head, Quebec.	Mfr.	
" 23	"	56145	" "	3 " .	37	Brasserie & Champlain, Quebec.	"	
" 23	"	56146	" "	3 " .	42	Bossnell, Quebec.	"	
" 23	"	56147	" "	3 " .	32	Fox Head, Quebec.	"	
" 23	"	56148	O. Bacon, 28, rue Hermine, Quebec.	3 " .	40	Bossnell, Quebec.	"	

SESSIONAL PAPER No. 14

ALE (BEER)—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLEE, INSPECTOR.

1913.								
Sept. 19	Ale	59726	A. L. Caisse, Berthierville.	3 bots.	45	Dawes Co., Lachine.		
" 19	"	59727	O. Paquette, Berthierville.	3	45	Gold Lion Brewing Co., Ltd., Valleyfield.		
" 19	"	59728	J. A. Laporte, Berthierville.	3	30	Eckers Brewing Co., Montreal.		
" 22	"	59729	George Gouin, St. Felix de Valois.	3	30	Silver Spring, Sherbrooke.		
" 22	"	59730	Ludger Duperrault, St. Felix de Valois.	3	50	Molson, Montreal.		

DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.

Sept. 29	Beer	1729	J. U. Brunnette, Victoriaville.	3 bots.	35	Silver Spring Brewery, Ltd., Sherbrooke.		Silver Spring.
Oct. 1	"	1730	Silver Spring Brewery, Ltd., Sherbrooke.	3	35	Vendors		
" 1	"	1731	National Breweries, Ltd., Sherbrooke.	3	25	Wm. Dow & Co., Montreal.		Dow's
" 13	"	1732	Leop. L. Hureux, St. Hyacinthe.	3	25	St. Lawrence Brewery, Ltd., Cornwall.		Cornwall.
" 13	"	1733	F. Orsali & Cie, St. Hyacinthe.	3	25	Dow's Breweries, Lachine.		Red Horse.

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Nov. 4	Beer	58616	N. Lalonde, 364 Charlevoix, st., Montreal	3 bots.	38	Dawes Breweries, Lachine.		Black Horse Ale
" 4	"	58617	H. Harel, 361 Charlevoix, st., Montreal	3	38	Wm. Dow & Co.		
" 4	"	58618	A. Jean, 471 Charlevoix, st., Montreal	3	31	Canadian Breweries.		
" 4	"	58619	A. Kathe, 555 Grand Trunk st., Montreal	3	38	John H. R. Molson & Bros.		
" 4	"	58620	E. Valade, 230 Chateauguay st., Montreal.	3	30	The Independent Breweries Co., Ltd.		

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BULLETIN No. 283—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VALLEYFIELD—D. J. KEARNEY, ACTING INSPECTOR.

1913.								
Nov.	12 Beer.	58656	John McDonald, River Beaudette.	3 bots	45	John McCarthy & Sons, Prescott.		
"	12 " "	58657	M. Beauchamp, River Beaudette.	3 "	45	Dawes Breweries, Lachine.		Red Horse Ale.
"	20 " "	58658	Salaberry Hotel, Valleyfield.	3 "	45	Gold Lion Brewing Co., Valleyfield.		
"	20 " "	58659	Arthur Sauvé, Valleyfield.	3 "	45	"		
"	20 " "	58660	A. D. Leduc, Valleyfield.	3 "	45	"		

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Sept.	30 Ale.	42895	Chelsea Trading Co., Ltd., Bank st., Ottawa.	3 bots	45	Wm. Dow & Co., Montreal.	Dawes, Ottawa.	Indian Pale Ale.
"	30 " "	42896	"	3 "	45	Dawes, Ottawa.	Manufacturers.	"
"	30 " "	42897	J. Lavigne, Wellington st., Ottawa.	3 "	45	The Brading Brewing Co., Ltd., Ottawa.	"	This ale is brewed from pure malt and the best English Bavarian hops.
"	30 " "	42898	"	3 "	45	Carling's Ottawa.	"	
Oct.	3 " "	42899	Walter Cunningham, Rideau st., Ottawa.	3 "	45	The Reinhardt Salvador Brewery Ltd., Toronto.	"	Sterling Spécial.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Sept.	18 Beer.	60026	James McParland, Kingston.	3 bots	45	Labatts, London.		
"	18 " "	60027	J. Gordon, Kingston.	3 "	45	Coplands, Toronto.		
"	18 " "	60028	G. Thompson, Kingston.	3 "	45	J. Fisher, Portsmouth.		
"	18 " "	60029	E. Beaupré, Kingston.	3 "	60	O'Keefe, Toronto.		
"	22 " "	60030	J. Ray, Belleville.	3 "	27	Vendor.		

SESSIONAL PAPER No. 14

ALE (BEER)—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO H. J. DAGER, INSPECTOR.								
1913.								
Sept. 17	Beer ..	57484	J. W. Ryan, 188 3 bts Queen st., West, Toronto.	36	.....	The Cos- grave B. Co., Ltd., Toronto.		
" 18	" ..	57485	H. P. Redway, 212 3 " Queen st., East, Toronto.	35	.....	The Dom. B. Co., Ltd., Toronto.	Pale Ale.	
Sept. 18	" ..	57486	John Mather, 152 3 " King st., East, To- ronto.	36	.....	Copland B. Co., Ltd., Toronto.	Pale Ale.	
" 18	" ..	57487	A. Graham, 3 McCaul st., Toronto.	45	.....	The O'keefe B. Co., Ltd., Toronto.	O'keefe's Special extra mild ale.	
" 19	" ..	57488	E. T. Sandell, 525 3 " Yonge st., Hamilton	45	.....	Sleeman & Sons, Ltd., Guelph.	Silver Creek Brewery Ale.	

DISTRICT OF HAMILTON—J. J. COSTIGAN, ACTING INSPECTOR.

Sept. 29	Ale.	50865	John O. Carpenter, 3 bts 10 Market Square, Hamilton.	36	.....	Carlings, Lon- don, Ont.		Amber Ale.
" 29	" ..	50866	" " 3 " ..	36	.....	Grant's Spring B. Co., Ltd.		Pale Ale.
" 29	" ..	50867	" " 3 " ..	36	.....	Don B. Co., Ltd., Toronto		Export White Label.
" 29	" ..	50868	M. Cummings, 2, Bar- ton st., Hamilton.	30	.....	Grant's Spring B. Co., Ltd.		East India Pale Ale.
" 29	" ..	50869	" " 3 " ..	30	.....			Labatt's India Pale Ale.

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Oct. 8	Ale.	54412	R. Callinan, Petrolia, 3 bts 40	.....	J. Labatt, London.		Labatt's India Pale Ale.
" 9	" ..	54414	D. Donaldson, Sarnia, 3 " .. 60	.....	Coplands, To- ronto.		Copland's Pale Ale.
" 9	Lag., beer	54415	" " 3 " .. 45	.....	B. Am. B. Co., Windsor.		Cincinnati Cream Export.
" 9	Ale.	54421	C. H. Pugh, Sarnia, 3 " .. 50	Carling B. & M. Co., Lon- don.		Carling's Amber Ale.
" 9	Lag., beer	54422	" " 3 " .. 50	Walkerville B. Co., Walk- erville.		Superior Lager Beer.

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BULLETIN No. 283

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion?)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA A. C. LARIVIERE, INSPECTOR.

1915.								
Sept. 27	Ale (beer)	48941	R. L. Drewery, Winnipeg.	3 bots	Nil	Vendor.		Refined Ale.
" 29	" "	48942	McDonagh & Shea, Winnipeg.	3 "	....	Vendors ..		
" 30	" "	48943	T. D. Cavanagh, Winnipeg.	3 "	50	Bass & Co ..		Bottled by C. C. Hibbert & Co., London.
" 27	" "	48944	The Empire Brewing Co., Brandon.	3 "	..	Vendors..		
" 27	" "	48945	The Brandon Brewing Co., Brandon.	3 "	..	"		

DISTRICT OF ROCKY MOUNTAINS THOS. PARKER, INSPECTOR.

Oct. 2	Beer.	49961	E. A. Taylor, Nelson, B.C.	3 bots	1.00	Fernie Fort Steele B. Co., Fernie.		
" 2	" "	49962	Nelson Brewery Co., Nelson, B.C.	3 "	1.00	Vendors.....		
" 17	" "	49987	Pollock Wine Co., Fernie, B.C.	3 "	1.00	Elk Valley B. Co., Michel, B.C.		
Nov. 1	" "	49988	A. Mueller, Trail, B.C.	3 "	1.00	Vendor..		
" 3	" "	49989	Smith & Belton, Rossland, B.C.	3 "	1.00	Le Roi B. Co., Rossland, B.C.		

SESSIONAL PAPER No. 14

ALE (BEER)—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendyr.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer. Furnisher.	

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

1913							
Sept. 24	Ale.	57641	T. J. Jackman, 608 View st., Victoria, B.C.	3 qts.	50	Silver Spring B. Co., Ltd., Victoria, B.C.	Tate's English Ale.
24	"	57642	B.C. Wine Co., Ltd., 1216 Douglas st., Victoria, B.C.	3 "	45	Victoria Phoenix B. Co., Ltd., Victoria, B.C.	Victoria Phoenix Ale.
Oct. 6	"	57645	The West End Grocery Co., Ltd., 1002 Government st., Victoria, B.C.	3 "	90	Bass & Co., Eng.	Bass's Red Label Pale Ale.
" 6	"	57646	D. Stewart, 607 Yates st., Victoria, B.C.	3 "	90	Meux & Co., London.	Meux's London Pale Ale.
" 6	"	57647	Dixie H. Ross & Co., 1316 Broad st., Victoria, B.C.	3 "	90	Bass & Co., Eng.	Bass & Co., Pale Ale Beaver Brand.

BULLETIN No. 283—ALE (BEER)—TABLE II.

Name of Inspectoral District.	No. of Sample.	Specific Gravity, at 15° C.		Alcohol p. c.		Beer.		Residue.	Weight.	Volume.	Proof Spirit.		Solids in Original wort.		Solids in Beer p.c.		Malt used. Pounds per Gallon.	Degree of Fermentation.	Total Acidity Grains as Lactic per 100cc.	Ash.	Protein.	P ₂ O ₅ .	Salicylic Reaction.	SO ₂ .	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Distillate.	Beer.	Weight.	Volume.	Proof Spirit.	p. c.				p. c.	p. c.	p. c.	p. c.	p. c.	p. c.										
Nova Scotia	54301	1.0056	0.9897	1.0158	6.02	7.51	13.16	16.08	4.08	2.75	74.64	0.32	0.292	0.656	0.086	negative	54301	Extractive low.								
	54302	0.9937	0.9860	1.0091	5.51	6.87	12.04	13.37	2.35	2.26	82.41	0.36	0.356	0.300	0.056	"	54302									
	54303	1.0091	0.9970	1.0184	5.44	6.78	11.89	15.65	4.77	2.66	69.53	0.29	0.356	0.484	0.066	"	54303									
	54304	1.0075	0.9907	1.0168	5.41	6.75	11.84	15.16	4.34	2.58	71.89	0.34	0.270	0.646	0.089	"	54304									
	54305	1.0055	0.9920	1.0128	4.19	5.24	9.18	11.68	3.30	1.94	71.73	0.23	0.292	0.528	0.072	salicylic	54305									
New Brunswick	54362	1.0078	0.9920	1.0145	4.61	5.77	10.10	12.96	3.74	2.59	71.1	0.24	0.280	0.502	0.063	negative	54362	Extractive slightly low.								
	54363	1.0078	0.9924	1.0171	5.41	6.75	11.84	15.24	4.42	2.69	71.01	0.33	0.320	0.644	0.068	"	54363									
	54364	1.0088	0.9934	1.0153	5.73	7.03	8.23	11.41	3.35	1.89	65.37	0.35	0.250	0.554	0.077	"	54364									
	54365	1.0111	0.9946	1.0163	4.34	5.43	9.52	13.50	4.82	2.5	64.30	0.30	0.334	0.686	0.065	"	54365									
	54366	1.0064	0.9896	1.0180	4.34	5.43	9.52	13.48	4.82	2.54	73.98	0.38	0.334	0.534	0.080	"	54366									
Quebec	56141	1.0117	0.9925	1.0194	4.27	5.31	9.35	13.50	4.81	2.25	63.27	0.47	0.222	0.592	0.060	salicylic	56141	Extractive slightly low.								
	56145	1.0120	0.9927	1.0193	4.18	5.23	9.17	13.37	5.01	2.22	62.52	0.35	0.253	0.600	0.051	"	56145									
	56146	1.0168	0.9926	1.0183	4.33	5.42	9.50	13.40	4.74	2.24	64.61	0.39	0.254	0.630	0.080	"	56146									
	56147	1.0133	0.9936	1.0203	3.98	4.98	8.73	13.24	5.25	2.21	60.12	0.43	0.296	0.522	0.062	"	56147									
	56148	1.0119	0.9930	1.0183	4.23	5.30	9.27	13.47	5.01	2.25	62.81	0.41	0.262	0.618	0.080	"	56148									
Three Rivers	56726	1.0053	0.9926	1.0144	4.21	5.26	9.22	11.67	3.20	1.94	72.13	0.31	0.298	0.636	0.079	negative	56726	Extractive slightly low.								
	56727	1.0053	0.9926	1.0144	4.21	5.26	9.22	11.67	3.20	1.94	72.13	0.31	0.298	0.636	0.079	"	56727									
	56728	1.0056	0.9928	1.0144	4.21	5.26	9.22	11.74	3.29	1.92	70.79	0.27	0.298	0.568	0.063	"	56728									
	56729	1.0038	0.9923	1.0114	4.41	5.51	9.65	11.76	2.94	1.95	74.89	0.40	0.216	0.436	0.035	Extractive low.	56729									
	56730	1.0049	0.9930	1.0119	4.41	5.51	9.65	11.69	3.07	1.83	72.35	0.44	0.216	0.436	0.035	"	56730									
Eastern Townships	17291	1.0051	0.9928	1.0124	4.09	5.12	8.74	11.09	3.15	1.87	72.21	0.42	0.216	0.495	0.058	"	17291	Extractive slightly low.								
	17301	1.0055	0.9931	1.0130	3.57	4.47	7.86	10.49	3.85	1.72	66.60	0.20	0.207	0.374	0.055	"	17301									
	17311	1.0037	0.9937	1.0130	3.57	4.47	7.86	10.81	4.49	1.49	68.10	0.30	0.207	0.614	0.080	salicylic	17311									
	17321	1.0043	0.9913	1.0179	4.04	5.12	8.97	11.43	3.25	1.89	71.58	0.29	0.216	0.402	0.057	"	17321									
	17331	1.0035	0.9926	1.0196	4.04	5.12	8.96	11.37	6.01	2.22	57.37	0.28	0.216	0.479	0.060	"	17331									
Montreal	58616	1.0091	0.9936	1.0154	3.60	4.50	7.90	11.17	3.97	1.85	73.43	0.29	0.216	0.480	0.060	"	58616	Extractive slightly low.								
	58617	1.0091	0.9936	1.0171	4.69	5.76	10.69	13.62	4.42	2.28	67.36	0.34	0.242	0.632	0.074	"	58617									
	58618	1.0098	0.9939	1.0167	3.36	4.36	8.69	12.23	4.31	2.03	64.79	0.26	0.229	0.482	0.059	"	58618									
	58619	1.0096	0.9926	1.0178	4.58	5.73	10.62	13.77	4.61	2.30	66.51	0.45	0.248	0.558	0.066	negative	58619									
	58620	1.0146	0.9947	1.0192	2.93	3.75	6.36	11.15	5.17	1.83	53.64	0.35	0.192	0.420	0.060	"	58620									

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BULLETIN No. 283—ALE (BEER)—TABLE III.

Name.	Specific Gravity at 15.5°c.		Alcohol, p.c.		Proof Spirit.	Solids in Original Wort.		Solids in Beer.		Malt used.	Degree of Fermentation.	Total Acidity Grains per 100cc.	Ash.	Proteins.	P ₂ O ₅ .	Salicylic Reaction.	SO ₂ .	No. of Sample.	Remarks, and Opinions of the Chief Analyst.
	Beer.	Distillate.	Residue.	Weight.		Volume.	p.c.	p.c.	p.c.										
Bass.	1.0080	0.98564	1.0185	6.18	7.71	13.51	17.15	4.79	2.92	72.07	0.35	0.356	0.562	0.062	negative	57645	Extractive slightly low.
"	1.0087	0.98550	1.0191	6.17	7.69	13.48	17.30	4.95	2.94	71.34	0.36	0.340	0.552	0.066	"	.....	.....	57647
"	1.0064	0.98550	1.0168	6.17	7.69	13.48	16.68	4.34	2.84	73.80	0.38	0.334	0.531	0.080	"	.....	.....	50366
"	1.0100	0.99124	1.0188	5.10	6.37	11.16	15.08	4.88	2.55	67.66	0.34	0.310	0.514	0.056	"	.....	.....	48943
"	1.0091	0.99070	1.0184	5.44	6.78	11.80	15.65	4.74	2.66	69.53	0.29	0.356	0.484	0.066	"	.....	.....	54303
Boswell.	1.0108	0.99246	1.0183	4.33	5.42	9.50	13.40	4.77	2.24	64.61	0.39	0.264	0.630	0.080	salicylic	.....	.....	50146
"	1.0119	0.99263	1.0193	4.23	5.30	9.27	13.47	5.01	2.25	62.81	0.41	0.262	0.618	0.080	"	.....	.....	56148
Bradley	1.0075	0.99479	1.0127	2.95	3.70	6.48	9.18	3.28	1.49	64.98	0.41	0.157	0.344	0.057	negative	.....	.....	42907
Branden	1.0138	0.99186	1.0219	4.73	5.89	10.32	15.11	5.67	2.54	62.47	0.21	0.190	0.500	0.090	"	.....	.....	48945
Canadian	1.0098	0.99496	1.0167	3.96	4.96	8.69	12.93	4.31	2.03	64.76	0.26	0.220	0.482	0.059	salicylic	.....	.....	58618
Carlings.	1.0103	0.99246	1.0178	4.33	5.42	9.50	13.37	4.61	2.21	65.25	0.41	0.352	0.546	0.054	negative	.....	.....	54421
"	1.0113	0.99218	1.0193	4.51	5.65	9.89	14.03	5.01	2.34	64.30	0.47	0.377	0.516	0.032	"	.....	.....	50865
"	1.0128	0.99226	1.0205	4.46	5.58	9.78	14.25	5.33	2.38	62.61	0.41	0.272	0.500	0.030	"	.....	.....	42908
"	1.0120	0.99271	1.0193	4.18	5.23	9.17	13.37	5.01	2.22	62.69	0.36	0.253	0.500	0.051	salicylic	.....	.....	56145
Champlain.	1.0155	0.99464	1.0208	3.01	3.70	6.49	11.42	5.40	1.88	62.71	0.54	0.190	0.722	0.078	negative	.....	.....	54415
Cincinnati Cream.	1.0177	0.99325	1.0244	3.89	4.82	8.45	13.99	6.29	2.39	54.48	0.30	0.256	0.646	0.064	"	.....	.....	60027
Copland	1.0185	0.99318	1.0253	3.90	4.87	8.54	14.32	6.52	2.39	54.48	0.30	0.256	0.634	0.061	"	.....	.....	54414
"	1.0181	0.99297	1.0250	3.96	4.99	8.68	14.36	6.44	2.41	55.16	0.54	0.256	0.634	0.061	"	.....	.....	57486
Cornwall	1.0055	0.99286	1.0126	4.00	5.12	8.97	11.43	3.25	1.89	71.58	0.20	0.199	0.402	0.037	salicylic	.....	.....	47486
Cosgrave	1.0126	0.99310	1.0195	3.94	4.93	8.64	12.94	5.06	2.15	60.88	0.65	0.308	0.494	0.057	negative	.....	.....	57484
Daves.	1.0119	0.99307	1.0188	3.96	4.95	8.68	12.80	4.88	2.13	61.87	0.35	0.296	0.494	0.057	negative	.....	.....	59726
"	1.0103	0.99269	1.0176	4.20	5.25	7.90	12.95	4.55	2.15	64.86	0.34	0.256	0.494	0.057	salicylic	.....	.....	42896
"	1.0091	0.99368	1.0154	3.60	4.50	7.40	11.17	3.97	1.89	73.43	0.29	0.216	0.480	0.060	"	.....	.....	58016
"	1.0097	0.99335	1.0163	3.79	4.74	8.32	11.79	4.21	1.96	64.98	0.41	0.234	0.480	0.059	"	.....	.....	58057
"	1.0181	0.99247	1.0256	4.33	5.42	9.39	15.27	6.61	2.57	75.37	0.28	0.210	0.472	0.060	"	.....	.....	1733
"	1.0124	0.99186	1.0205	4.71	5.89	10.32	14.73	5.33	2.48	63.87	0.50	0.308	0.490	0.071	"	.....	.....	50867
Dom. B. Co.	1.0136	0.99201	1.0215	4.57	5.73	9.89	14.71	5.57	2.47	62.13	0.63	0.316	0.682	0.074	(expose).	.....	.....	57485
"	1.0093	0.99162	1.0177	4.86	6.04	10.64	14.30	4.58	2.40	67.98	0.34	0.250	0.836	0.074	negative	.....	.....	42895
Dow & Co.	1.0094	0.99151	1.0179	4.94	6.17	10.81	14.51	4.63	2.41	68.10	0.30	0.237	0.644	0.080	salicylic	.....	.....	0.0047
"	1.0081	0.99203	1.0171	4.60	5.76	10.09	13.62	4.42	2.28	67.36	0.34	0.242	0.632	0.074	"	0.0088	

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Dewey.	1.0101	0.99194	1.0182	4.65	5.83	10.21	14.03	4.71	2.34	66.43	0.25	0.476	0.038	negative	48941	
Ekers.	1.0066	0.99218	1.0141	5.15	6.65	9.89	12.74	3.72	2.34	70.79	0.27	0.568	0.063	"	50726	
Elk Valley.	1.0121	0.99467	1.0174	5.13	6.23	7.78	6.62	10.74	4.90	1.73	57.25	0.54	0.424	0.037	"	49987
Empire.	1.0092	0.99227	1.0169	4.46	5.38	9.76	13.28	4.36	2.21	67.17	0.21	0.588	0.038	saltyle	48944	
Female.	1.0060	0.99439	1.0216	3.19	3.99	6.98	11.98	5.60	1.98	53.25	0.20	0.174	0.028	negative	49961	
Fisher Bros.	1.0108	0.99240	1.0184	4.37	5.47	9.58	13.51	4.77	2.25	64.71	0.31	0.568	0.731	0.087	"	0.0038
Gold Lion.	1.0053	0.99267	1.0126	4.21	5.26	9.22	11.67	3.25	1.94	72.14	0.31	0.228	0.686	0.060	"	50727
"	1.0045	0.99265	1.0118	4.22	5.28	9.24	11.49	3.65	1.90	73.40	0.42	0.240	0.474	0.051	"	58650
"	1.0043	0.99261	1.0117	4.24	5.31	9.30	11.50	3.62	1.91	73.74	0.42	0.244	0.462	0.051	"	58659
"	1.0046	0.99263	1.0117	4.64	5.66	8.85	11.10	3.92	1.82	72.80	0.41	0.234	0.446	0.047	"	58658
Grant.	1.0203	0.99361	1.0267	3.64	4.65	7.99	14.19	6.91	2.37	51.89	0.41	0.308	0.564	0.074	negative	50868
"	1.0177	0.99287	1.0248	4.07	5.10	8.93	14.53	6.35	2.45	56.02	0.43	0.308	0.556	0.076	"	0.0071
Howards.	1.0056	0.99267	1.0158	6.02	7.51	13.16	16.48	4.68	2.75	74.64	0.32	0.292	0.656	0.099	"	54301
Independent.	1.0146	0.99472	1.0199	2.49	3.73	6.56	11.15	5.17	1.83	53.64	0.35	0.192	0.430	0.060	"	58650
Kent.	1.0053	0.99074	1.0158	5.41	6.75	11.84	15.16	4.34	2.58	71.85	0.34	0.270	0.646	0.089	"	54304
"	1.0068	0.99346	1.0153	3.73	4.66	8.23	11.41	3.43	1.89	65.37	0.35	0.250	0.554	0.077	"	50634
Labatt.	1.0093	0.99240	1.0173	4.62	5.78	9.13	13.71	4.47	2.30	67.41	0.30	0.328	0.746	0.083	"	0.0030
"	1.0111	0.99245	1.0186	4.34	5.43	9.02	13.50	4.82	2.25	64.30	0.30	0.334	0.686	0.066	"	0.0063
"	1.0108	0.99374	1.0231	3.57	4.46	7.82	13.11	5.47	2.18	54.46	0.54	0.329	0.586	0.068	"	0.0063
"	1.0102	0.99357	1.0226	3.67	4.58	8.04	13.18	5.84	2.19	55.69	0.50	0.314	0.568	0.065	"	0.0071
"	1.0135	0.99374	1.0198	3.57	4.46	7.82	12.29	5.15	2.03	58.11	0.28	0.180	0.492	0.071	"	49989
Le Roi.	1.0116	0.99164	1.0200	4.85	6.07	10.02	14.90	5.20	2.51	65.10	0.50	0.341	0.396	0.049	"	58656
McCarthy.	1.0093	0.99227	1.0170	4.46	5.58	9.76	13.31	4.39	2.22	67.03	0.54	0.263	0.600	0.055	"	48942
McDonagh & Shea.	0.9937	0.99460	1.0091	5.51	6.87	12.04	13.37	2.35	2.26	82.41	0.36	0.256	0.390	0.056	"	54302
McEwan.	1.0089	0.99369	1.0158	3.95	4.94	8.67	11.98	4.61	1.90	65.94	0.35	0.213	0.286	0.040	"	0.0025
Mex.	1.0049	0.99207	1.0178	4.58	5.73	10.02	13.77	4.61	2.30	68.51	0.45	0.248	0.538	0.066	"	0.0047
Molsons.	1.0049	0.99363	1.0119	4.01	5.01	8.74	11.09	3.97	1.83	72.25	0.41	0.244	0.540	0.066	"	0.0060
"	1.0117	0.99257	1.0191	4.27	5.34	9.83	13.50	4.86	2.25	63.37	0.47	0.222	0.592	0.060	saltyle	50114
National.	1.0133	0.99363	1.0203	3.98	4.98	8.73	13.24	5.28	2.21	60.13	0.43	0.206	0.522	0.069	"	49962
Nelson.	1.0124	0.99366	1.0187	3.61	4.52	7.92	12.07	4.83	2.00	59.82	0.38	0.176	0.498	0.071	negative	54305
Oland.	1.0055	0.99270	1.0184	1.15	2.24	9.18	11.68	3.30	1.94	71.73	0.23	0.202	0.528	0.072	saltyle	57487
O'Keefe.	1.0107	0.99280	1.0179	4.12	5.16	9.04	12.87	4.63	2.12	64.01	0.40	0.298	0.552	0.069	negative	60029
"	1.0125	0.99281	1.0197	4.11	5.15	9.03	13.34	5.12	2.22	61.62	0.41	0.216	0.536	0.064	"	50393
Ready.	1.0078	0.99074	1.0171	5.41	6.70	11.84	15.24	4.42	1.59	71.01	0.51	0.329	0.644	0.068	"	60030
Reinhart.	1.0044	0.99349	1.0160	3.71	4.64	8.14	10.24	2.82	1.68	72.46	0.23	0.228	0.502	0.066	"	57488
Roy.	1.0133	0.99408	1.0212	3.86	4.71	7.38	12.22	5.50	2.02	54.99	0.63	0.304	0.550	0.056	"	60030
Silver Creek (Guelph).	1.0036	0.99238	1.0129	4.89	5.49	9.05	11.76	3.41	0.42	72.07	0.37	0.240	0.412	0.052	"	57488
Silver Spring (Sheelbrook).	1.0038	0.99235	1.0114	4.41	5.51	9.05	11.33	2.94	1.95	74.99	0.40	0.216	0.436	0.055	"	50729
"	1.0051	0.99285	1.0122	4.05	5.12	8.97	11.33	3.15	1.87	72.21	0.42	0.216	0.436	0.058	"	1729
"	1.0067	0.99374	1.0130	3.57	4.47	7.86	10.49	3.35	1.72	66.06	0.20	0.207	0.374	0.055	"	50662
Simcoe Jones.	1.0065	0.99202	1.0145	4.61	5.77	10.10	12.96	3.74	2.16	71.12	0.51	0.280	0.562	0.033	"	57641
Take.	1.0043	0.99179	1.0126	4.76	5.95	10.41	12.75	3.23	2.13	74.67	0.36	0.272	0.354	0.058	"	49968
Trail.	1.0099	0.99474	1.0152	2.98	3.73	6.54	9.88	3.92	1.62	60.32	0.31	0.138	0.288	0.061	"	57642
Victoria.	1.0112	0.99410	1.0171	3.35	4.20	7.36	11.12	4.42	1.84	60.26	0.24	0.174	0.514	0.070	"	54422
Walkerville (Lager Beer).	1.0135	0.99440	1.0191	3.18	3.98	6.97	11.32	4.96	1.86	56.18	0.41	0.168	0.582	0.078	"	

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APPENDIX Z2.

BULLETIN No. 284—ARSENATE OF LEAD

OTTAWA, March 27, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I have the honour to submit herewith a report upon eighty-two samples purchased as Arsenate of Lead in June, July and August of last year.

Consequent upon many complaints regarding the character of this article as offered on the Canadian markets, a collection of 26 samples was made in 1910 (see Bulletin No. 205).

Upon the work then done, and further study of the subject, the following standards were recommended and are incorporated into the fourth schedule to the Adulteration Act, by an amendment dated June 6, 1913.

ARSENATE OF LEAD.—1. An insecticide, containing at least 48 per cent of its weight of solids as a residue when dried to constant weight on the steam bath; and these solids must essentially consist of the pentoxide of arsenic in combination with the monoxide of lead. Water-soluble arsenic (expressed as the tri-oxide of arsenic) must not be present to more than one per cent of the weight of the insecticide as sold.

2. Arsenate of lead shall be regarded as adulterated if any substance has been mixed or packed with it so as to reduce, lower or injuriously affect its quality or strength.

The results obtained by analysis of the 52 samples now reported must be judged in accordance with the legal standards quoted.

The great majority of these samples are sold in the form of a paste, this being the form in which the article is most readily available for use as a spray. In order that the article may not dry out on the shelves of the dealer, it is usually put up in glass or tin containers, and hermetically sealed. Forty-one (41) samples of this collection were furnished to the analyst in the original container, and these are specified in the table. The remainder were furnished in glass bottles or in tins which had been filled by our inspectors from the larger packages of the dealer. Owing to the great difficulty of sampling a paste of this kind, some uncertainty attaches to the determination of the water content in these cases; and where the containers used by our inspectors have been imperfectly closed, more or less loss of moisture occurs during storage in the interval between collection and analysis. Indeed many of the samples, as packed by the manufacturer, showed clearly that loss of water had occurred through imperfect sealing. Some of these, put up in tin containers, showed the tin rusted quite through, and the contents dry. This was particularly the case with sample 54148. In spite of these imperfections, a sufficient number of samples, (more than 30) were received in such good condition as to justify the conclusion that, so far as content of solid matter is concerned, the manufacturers of Arsenate of Lead endeavour to meet the requirements of the legal definition.

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Water soluble arsenic varies considerably, but in no case does it reach anything like the permitted limit.

With regard to the content of Arsenate of Lead in Arsenic Acid and Oxide of Lead, which are the active ingredients of this insecticide, the following work reported by the New Jersey Experiment Station (Bulletin No. 222) is important. "Arsenate of Lead is prepared by the action of Lead Acetate or Lead Nitrate on Di-Sodium Arsenate. Using pure chemicals the product prepared from the Acetate contains theoretically 74.40 per cent of Oxide of Lead and 25.60 per cent of Arsenic Anhydride. At a conference of manufacturers and entomologists a standard agreed upon was that Lead Arsenate should contain not over 50 per cent water, and not less than 12.5 per cent. Arsenic Anhydride. Fifteen samples of the commercial article gave the following results, calculated to a dry basis:—

Arsenic Anhydride.....	17.94 to 33.30 per cent.
Lead Oxide.....	62.48 to 70.63 "

The great difference noted between theoretical composition and the composition of the manufactured article is due to the formation of basic salts whose amount and character vary with the method of manufacture, the mixtures of salts at different stages of the process determining (along with temperature and other conditions) the establishing of equilibria, which change with every change in the conditioning. It will be noted that the Canadian article, shows a greater uniformity and a nearer approximation to theoretical requirements than the samples analyzed at the New Jersey Station.

The results now placed on record indicate that this article, as offered for sale in Canada, is of very satisfactory character.

I beg to recommend publication of this report as Bulletin No. 284.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
					Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA								
1913.								
July	8	Arsenate of lead.	54142	National Drug Co., Halifax, N.S.	3 lbs.	65	Unknown	N. D. & C. Co. Montreal.
"	15	"	54143	J. A. Craig, Yarmouth, N.S.	3 "	90	Canada Paint Co., Montreal.	Canadian Drug Co., St. John. N.B.
"	16	"	54144	T. L. Harvey, Wolfville, N.S.	1½ "	Nil	Vendor	"
"	16	"	54145	W. W. Rockwell, Kentville, N.S.	3 "	25	Corona Chem. Co., Newark, N.J.	Manufacturers . .
"	17	"	54146	Wilcox Bros., Windsor, N.S.	1½ "	20	Canada Paint Co., Montreal.	"
"	17	"	54147	F. H. Manning, Fallmouth, N.S.	1½ "	20	Merrimac Chem. Co., Boston.	Capt. Allen, Kentville, N.S.
"	"	"	54148	Halifax Seed Co., Halifax, N.S.	3 "	75	May & Baker, London, Eng.	E. B. Sutcliffe, Halifax, N.S.
"	24	"	54149	E. G. Moxon, Truro, N.S.	1 "	25	Chemical Laboratories, Ltd.	N. D. & C. Co., Halifax, N.S.
"	25	"	54150	G. J. Kinley, Lunenburg, N.S.	3 "	75	"	"
"	28	"	54151	Brown Bros., Halifax, N.S.	3 "	75	N. D. & C. Co., Halifax.	"

DISTRICT OF NEW BRUNSWICK—

June 20	Arsenate of lead.	50652	The Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 lbs.	75	Dow Chem. Co., Midland, Mich.	....
" 24	"	50653	W. H. Thorne Co., Ltd., St. John, N.B.	3 "	75	The Grasselli Chem. Co., Cleveland, Ohio.	....
" 25	"	50654	P. Nase & Son, St. John, N.B.	3 "	75	The Canada Paint Co., Ltd., Montreal.	....
" 26	"	50655	The Canadian Drug Co., Ltd., St. John, N.B.	3 "	75	"	....
July 8	"	50656	J. S. Neill & Son, Fredericton, N.B.	3 "	75	"	....
" 8	"	50657	R. H. Mack, St. John, N.B.	3 "	75	....	The Nat. Drug & Chem. Co., Ltd., St. John, N.B.
" 11	"	50658	Wade Drug Co., Perth, N.B.	3 "	75	The Canada Paint Co., Montreal.	....
" 24	"	50659	Dickson & Troy, New-castle, N.B.	3 "	75	....	Nat. Drug & Chem. Co., Ltd., St. John, N.B.
" 25	"	50660	J. D. B. F. Mackenzie, Chatham, N.B.	3 "	95	Sherwin-Williams Co., Ltd., Montreal.

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ARSENATE OF LEAD.

Inspector's Report. (Is not and expres- sion of Opinion.)	Moisture in Sample as received.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on original package.			
		Total Arsenic as As ₂ O ₃ †	Total Lead as PbO.	Water Soluble Solids.	Water Soluble Arse- nic as As ₂ O ₃ .	Water Soluble Lead as PbO.	Water Soluble Im- purities.	Arsenic (As ₂ O ₃)	Lead (PbO.)				
.....	41.27	28.75	66.59	1.5	0.12	0.00	1.38	16.87	39.11	No.	54142		
.....	36.16	27.31	71.56	1.0	0.12	0.36	0.52	17.44	45.68	Yes.	54143		
.....	44.48	30.19	64.38	6.0	0.72	0.72	4.56	16.75	35.75	No.	54144		
Labelled Powdered Arsenate of Lead	0.20	31.62	65.30	0.5	0.12	0.18	0.20	.....	.....	No.	54145	
.....	28.08	30.19	67.14	2.0	0.12	0.18	1.70	21.71	48.29	No.	54146		
Labelled Swift's Arsenate of Lead	35.54	28.75	69.35	2.0	0.12	0.18	1.70	18.53	44.70	No.	54147		
.....	0.80	25.88	69.53	2.0	0.12	0.00	1.88	.....	.....	Yes.	54148	Tin container rusted through
"Vanco" Brand..	42.52	31.90	61.26	1.5	0.12	0.00	1.38	18.34	35.21	Yes.	54149		
"....."	45.05	28.75	63.98	1.5	0.12	0.18	1.20	15.80	37.90	Yes.	54150		
.....	44.50	31.07	66.22	2.0	0.24	0.00	1.76	17.25	36.75	No.	54151		

J. C. FERGUSON, INSPECTOR.

.....	49.16	31.62	65.49	1.0	0.24	0.18	0.58	16.07	33.30	Yes.	50652	
.....	43.65	27.31	69.90	1.0	0.24	0.18	1.58	15.39	39.39	Yes.	50653	
.....	47.05	25.88	71.92	1.5	0.12	0.18	1.20	13.71	38.08	Yes.	50654	
Specially prepared for C. D. Co., Ltd.	43.64	25.15	72.11	2.0	0.12	0.36	1.52	14.13	40.64	Yes.	50655	
.....	47.80	23.00	72.66	3.0	0.12	0.36	2.52	11.96	37.86	Yes.	50656	
"Vanco" Brand..	44.70	27.31	69.13	1.0	0.12	0.00	0.88	15.11	38.23	Yes.	50657	
Neutral Arsenate of Lead.	47.96	25.88	71.00	3.5	0.48	0.36	2.66	13.47	36.95	No.	50658	
Product of Canada Paint Co., Mon- treal.	39.55	26.83	68.24	1.5	0.12	0.00	1.38	16.22	41.25	Yes.	50659	
.....	38.72	27.31	71.00	1.0	0.12	0.36	0.52	16.74	43.51	No.	50660	

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BULLETIN No. 284—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUÉBEC—							
1913.							
June 23	Arsenate of Lead.	37075	J. B. Giroux, 385 rue St. Joseph, Québec.	3 box's	50	Unknown	J. E. Livermoia, Québec.
" 30	"	37076	L. E. Martel, 54 rue St. Joseph, Québec.	1 lb.	45	Canada Paint Ltd., Montreal.	Lymans, Ltd., Montreal.
July 2	"	37077	J. E. Livermoia, Couillard, St. Jean, Que.	3 "	75	"	Mfrs.
" 2	"	37078	Dr. Ed Morin, 113 Cote Lamontagne, Q.	3 "	75	Lyman Knox, Montreal.	"
DISTRICT OF THREE RIVERS							
June 24	Arsenate of Lead.	58957	Williams, Three Rivers	6 oz.	30	Nat. D. & C. Co., Montreal.	
" 25	"	58958	J. A. Peltier, Three Rivers.	6 "	30	"	
DISTRICT OF EASTERN TOWNSHIPS—							
July 28	Arsenate of Lead.	1645	H. Neven, St. Césaire.	3 box's	1 30	The Canada Paint Co., Ltd., Montreal.	
" 30	"	1646	P. H. Hébert, St. Hilaire.	1 jar.	75	The Sherwin-Williams Co., Ltd., Montreal.	
DISTRICT OF MONTREAL							
June 24	Arsenate of Lead.	58701	Dupuy et Ferguson, Jacques Square, Montreal.	3 pks.	1.05	Merrimac Chem. Co., Boston.	
" 24	"	58702	H. L. Dery, 21 Notre Dame east, Montreal.	3 "	1.05	Canada Paint Co.	
" 26	"	58703	Wm. Rennie & Co., Ltd., 109 McGill st., Montreal.	3 "	1.50	The Grasselli Co., Ltd., Hamilton, Ont.	
Aug. 21	"	58704	The Canada Paint Co., William st., Montreal.	3 lbs.	75	Vendors.	
" 22	"	58705	Nat. Drug & Chem. Co., 34 St. Gabriel st., Montreal.	3 "	57		Dow Chem. Co., Midland, Mich.
" 22	"	58706	The Lyman Knox Co., 374 St. Paul st., Montreal.	3 "	75	Canada Paint Co.	
" 27	"	58707	Lymans, Ltd., 474 St. Paul st., Montreal.	3 "	60		Dow Chem. Co., Midland, Mich.
" 28	"	58708	The Dr. Leduc Drug Co., Chaboillez square, Montreal.	3 "	9		Nat. Drug & Chem. Co.

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.										Analysis made on Original Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture in Sample as Received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.					
		Total Arsenic as As_2O_3 .	Total Lead as PbO .	Water Soluble Solids	Water Soluble Arse- nic as As_2O_3 .	Water Soluble Lead as PbO .	Water Soluble Im- purities.	Arsenic (As_2O_3).	Lead (PbO).				
X. W. E. BELAND, INSPECTOR.													
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
	0.40	27.31	70.27	1.0	0.24	0.00	0.76			No.	37075		
	50.00	27.31	71.00	1.5	0.12	0.36	1.02	13.65	35.50	No.	37076		
	0.15	25.88	72.66	1.0	0.12	0.18	0.70			No.	37077	Tin container	
	41.12	27.31	71.00	1.0	0.12	0.18	0.70	16.08	41.90	Yes.	37078	rusted	through.
DR. V. P. LAVALLÉE, INSPECTOR.													
	29.12	28.03	65.49	1.0	0.12	0.18	0.70	17.73	46.39	No.	58957		
	0.15	30.19	66.96	1.0	0.36	0.18	0.46			No.	58958		
J. C. ROULEAU, INSPECTOR.													
	40.25	27.31	71.00	0.5	0.12	0.00	0.38	16.32	42.42	Yes.	1645		
	46.92	25.88	72.11	1.5	0.12	0.36	1.02	13.74	38.28	No.	1646		
D. J. KEARNEY, INSPECTOR.													
	45.26	31.62	65.85	2.0	0.12	0.18	1.70	17.31	36.05	Yes.	58701		
	27.85	26.59	71.00	1.5	0.12	0.18	1.20	19.19	51.24	Yes.	58702		
	46.53	31.62	65.49	2.5	0.12	0.36	2.02	16.91	35.02	Yes.	58703		
	47.79	27.31	70.27	1.5	0.12	0.18	1.20	17.95	36.69	Yes.	58704		
	41.30	31.62	64.56	1.0	0.12	0.18	0.70	18.53	57.84	No.	58705		
	40.16	25.45	70.67	1.0	0.12	0.36	0.64	15.23	41.33	Yes.	58706		
	45.33	30.19	67.69	2.0	0.12	0.36	1.52	16.89	37.01	Yes.	58707		
	38.90	30.19	66.96	1.0	0.12	0.18	0.70	18.49	40.91	No.	58708		

5 GEORGE V., A. 1915

BULLETIN, No. 284—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1913.							
July 15	Arsenate of Lead.	58051	Beaner & Chasle, Valleyfield, P.Q.	3 jars.	75	Canada Paint Co., Ltd.	
" 26	" "	58052	Jas. Fortune, Huntingdon, P.Q.	3 " "	1.20	Sherwin-Williams Co., Ltd.	
" 26	" "	58053	A. Anderson, Herdman, P.Q.	3 " "	1.20	" "	

DISTRICT OF OTTAWA—

July 11	Arsenate of Lead.	59151	F. G. Newman, Byward Market, Ottawa	3 jars.	1.50	Canada Paint Co., Ltd., Toronto.	
" 12	" "	59152	The National Drug & Chemical Co., Ltd., Ottawa.	3 lbs.	75	Vendors.....	
" 12	" "	59153	J. S. Skinner & Son, Wellington st., Ottawa.	1½ "	38		Lymans Ltd., Montreal.
" 14	" "	59154	Standard Drug Co., Rideau st., Ottawa.	3 "	105	Canada Paint Co., Ltd., Toronto.	Drug Trading Co. Toronto.
" 14	" "	59155	Harrison's Pharmacy, Rideau st., Ottawa.	1½ "	30		Ottawa Drug Co., Ottawa.
" 14	" "	59156	M. A. Henderson, Bank st., Ottawa.	1 "	25		" "
" 14	" "	59157	F. W. Day, Bank st., Ottawa.	1 "	25	Nat. Drug & Chem. Co., Ltd., Ottawa.	Manufacturers.
" 14	" "	59158	W. J. Graham, Sparks st., Ottawa.	1½ "	40	Lymans Ltd., Montreal.	" "
" 14	" "	59159	Graham Bros., Queen st., Ottawa.	3 "	75	The Canada Paint Co., Montreal.	" "
Aug. 15	" "	59160	Graham Bros., Queen st., Ottawa.	1½ "	25	May & Baker, Battersea, London, Eng.	" "

DISTRICT OF KINGSTON—

June 23	Arsenate of Lead.	57359	G. W. Mabood, Kingston.	3 tins.	75	The Canada Paint Co., Montreal.	
" 23	" "	57351	W. A. Mitchell, Kingston.	3 jars	90	National Drug Co., London, Ont.	
" 25	" "	57352	A. Geen, Belleville....	3 lbs.	75		Drug Trading Co. Toronto.
" 25	" "	57353	H. R. Smith, Cobourg.	3 tins.	1.05	Sanderson & Peardy Co., Toronto.	
" 26	" "	57354	McDermid & Jury, Peterboro,	3 bots.	75	Canada Paint Co., Montreal.	

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report, (Is not an expression of Opinion.)	Results of Analysis.										Remarks and Opinion of the Chief Analyst.	
	Moisture in Sample as received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on original package.		
		Total Arsenic as As ₂ O ₃ .	Total Lead as PbO.	Water Soluble Solids.	Water Soluble Arse- nic as As ₂ O ₃ .	Water Soluble Lead as PbO.	Water Soluble Im- purities.	Arsenic (As ₂ O ₃).	Lead (PbO.)			

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	30.02	25.88	70.09	2.00	12.00	18.17	70	15.85	42.74	Yes.	58051
.....	40.45	25.88	71.19	2.00	24.00	36.14	40	15.41	42.40	Yes.	58052
.....	39.62	25.88	71.37	2.00	12.00	0.00	1.88	15.79	43.00	Yes.	58053

A. RICKEY, INSPECTOR.

Labelled, Neutral, C. P. Arsenate of Lead.	43.35	25.88	71.74	1.50	48.00	18.08	81	14.66	40.64	Yes.	59151
Guaranteed to con- tain 15% Arsenic Oxide, less, than 50% moisture, less 1/2 of 1% Sol. Ars. Oxide.	43.45	28.75	65.85	1.50	12.00	0.00	1.38	16.26	37.24	No.	59152
.....	44.81	25.88	71.74	2.00	24.00	0.00	1.76	14.27	39.60	No.	59153
Neutral C.P., Ar- senate of Lead.	41.75	25.45	72.11	1.00	12.00	18.07	70	16.74	37.68	Yes.	59154
.....	0.15	28.75	68.98	2.50	36.00	0.00	2.14	.....	.....	No.	59155
.....	0.25	27.31	68.61	1.50	48.00	0.00	1.02	.....	.....	No.	59156
.....	0.25	28.03	66.77	2.50	12.00	0.00	2.38	.....	.....	No.	59157
.....	0.25	25.88	71.37	2.00	36.00	36.12	28	.....	.....	No.	59158
Neutral C.P., Ar- senate of Lead.	44.33	27.31	71.00	1.00	24.00	0.00	0.76	15.21	39.53	Yes.	59159
.....	0.45	28.75	64.93	3.00	12.00	18.27	70	.....	.....	No.	59160

JAS. HOGAN, INSPECTOR.

.....	40.91	25.88	71.74	1.50	48.00	0.00	1.02	15.32	42.47	Yes.	57350
.....	44.45	31.62	65.49	1.00	12.00	0.00	0.88	17.61	36.38	No.	57351
.....	34.74	30.19	68.42	1.50	24.00	36.11	10	19.70	44.65	No.	57352
.....	39.69	25.88	72.11	1.00	12.00	18.07	70	15.61	43.49	Yes.	57353
.....	41.56	27.31	70.27	1.00	12.00	18.07	70	15.96	41.06	Yes.	57354

5 GEORGE V., A. 1915

BULLETIN No. 284—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1913.							
June 26	Arsenate of Lead.	57355	The Warne Drug Co., 3 tins. Peterboro.	75	.....	National Drug Co., Toronto.	
" 26	" "	57356	E. L. Payne, Peterboro 3 bots.	75	Canada Paint Co., Montreal.		
" 26	" "	57357	Nugent Drug Co., 3 " Peterboro	90	The Grasselle.....		
" 26	" "	57358	W. Madill, Peterboro. 3 tins.	75	.....	Drug Trading Co. Toronto.	

DISTRICT OF TORONTO—

June 23	Arsenate of Lead.	57460	Jury & Gregory, Collingwood.	1 lb.	25	.....	Unknown
" 4	" "	57461	H. Cooke & Co., Orillia.	1 "	25	.....	Lyman Bros. & Co., Ltd., Toronto.
" 25	" "	57462	Wm Crossland, Barrie.	3 pkgs	90	.....	The Drug Trading Co., Ltd., Toronto.
" 26	" "	57463	D. Pettit, Pickering ..	1½ lb.	30	.....	Nat. Drug & Chem. Co., Ltd., Toronto.
" 27	" "	57464	G. M. Rice, Whitby..	1½ "	20	The Sherwin-Williams Paint Co., Toronto.	.....
July 8	" "	57465	Sanderson, Percy Co., 65 Adelaide st., Toronto.	2 "	40	Canada Paint Co., Montreal.	.....
" 8	" "	57466	The T. Eaton Co., Ltd., Toronto.	3 pkgs	51	Interstate Chem. Co., Jersey City, N.J.	.....

DISTRICT OF HAMILTON—

July 9	Arsenate of Lead.	58825	Parke & Parke, 17 Market Square, Hamilton.	3 tins.	60	Grasselli Chem. Co., Hamilton.	.....
" 9	" "	58826	Grasselli Chem. Co., Ottawa st., Hamilton.	3 jars.	54	Vendors.....	.....
" 10	" "	58827	Niagara Brand Spray Co., Brant st., Burlington.	3 kegs	4.20	Merimac Chem. Co., Boston, Mass.	.....

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.										No. of Sample.	Remark and Opinion of the Chief Analyst.
	Moisture in Sample as received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on original package.		
		Total Arsenic as As_2O_3 .	Total lead as Pb. O.	Water soluble Solids.	Water soluble Arse- nic as As_2O_3 .	Lead as Pb. O.	Im- purities.	Arsenic (As_2O_3).	Lead (Pb. O.)			

Concluded

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
.....	43.06	31.62	66.04	2.50	48.0	36.1	66	18.01	37.61	No.	57355	
.....	35.79	26.53	71.96	1.50	12.0	18.1	20	17.04	46.21	Yes.	57356	
.....	38.45	27.31	70.27	2.00	12.0	00	1.88	16.81	43.25	Yes.	57357	
.....	43.67	28.75	68.80	2.50	0.27	0.36	1.90	16.23	38.83	Yes.	57358	

H. J. DAGER, INSPECTOR.

.....	0.15	28.75	65.85	2.50	0.24	0.18	2.08	.....	.....	No.	57460	
Grasselli Arsenate of Lead.	0.29	25.88	68.24	4.00	0.48	0.36	3.16	.....	.....	No.	57461	
Neutral Arsenate of Lead.	38.27	25.88	70.82	2.00	0.12	0.18	1.70	15.98	43.72	Yes.	57462	
.....	46.14	30.19	66.96	1.50	0.12	0.00	1.38	16.26	36.06	No.	57463	
.....	44.46	25.88	71.74	2.00	0.12	0.36	1.52	14.33	39.85	No.	57464	
.....	32.21	25.88	70.27	1.00	0.12	0.00	0.88	17.55	47.64	No.	57465	
Key Brand. Con- taint $15\frac{1}{2}$ p.c. arsenic oxide.	45.40	30.19	64.56	1.00	0.12	0.00	0.88	16.49	35.26	Yes.	57466	

D. M. CAMERON, INSPECTOR.

.....	44.44	31.62	66.04	2.00	0.12	0.00	1.88	17.56	36.69	Yes.	58825	
.....	47.93	28.75	67.69	1.00	0.12	0.36	0.52	14.96	35.25	Yes.	58826	
.....	38.55	28.75	62.91	2.00	0.12	0.00	1.88	17.67	38.66	Yes.	58827	

5 GEORGE V., A. 1915

BULLETIN No. 284

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1913.							
July	3	Arsenate of Lead.	54847 P. Bawden, Ridge-town.	3 pkgs	60	.....	Nat. Drug Co., Hamilton.
"	7	"	54849 A. I. McCall & Co., Chatham, Ont.	3 "	60	.....	Chemical Laboratory, Toronto.
"	11	"	54878 Dardi & Hunter, London, Ont.	3 "	75	Canada Paint Co., Montreal	.....

DISTRICT OF ROCKY MOUNTAINS—

July	3	Arsenate of Lead.	49917 C. R. Macdonald, Revelstoke, B.C.	$\frac{3}{4}$ lb.	40	Merimac Chem. Co., Boston, Mass.	.....
"	3	"	Walter Bews, Revelstoke, B.C.	$\frac{3}{4}$ lb.	55	Vreeland Chem. Co., New York.	.....
"	16	"	49918 E. W. Hazlewood, Trail, C.B.	$\frac{3}{4}$ lb.	45	" "	.....
"	16	"	49920 Goodlove Bros., Rossland, B.C.	$\frac{3}{4}$ lb.	40	" "	.....
"	28	"	49932 Poole Drug Co., Nelson, B.C.	3 tins.	75	The B.C. Soap Wks., Vancouver, B.C.	.....
"	28	"	49940 Rutherford Drug Co., Nelson, B.C.	3 "	45	Vreeland Chem. Co., New York.	.....

DISTRICT OF VANCOUVER—

Aug.	8	Arsenate of Lead.	54911 Dr. H-pworth, Steveston, B.C.	3 pkgs	90	.....	J. A. Teeporten, Vancouver.
14	"	"	54912 Nat. Drug & Chem. Co., Vancouver, B.C.	3 "	45	Vreeland Chem. Co., New York.	.....

DISTRICT OF VICTORIA—

July	28	Arsenate of Lead.	57632 Wm. Jackson & Co., 1411 Douglas st., Victoria.	1 lb.	35	Unknown	Unknown
"	29	"	57635 Nat. Drug & Chem. Co., Ltd., 519 Yates st., Victoria.	$3\frac{1}{2}$ "	150	Vreeland Chem. Co., New York.	.....
"	29	"	57636 The Victoria Chem. Co., Ltd., 7 Dallas Road, Victoria.	3 "	75	Nobel, Glasgow, Sc.	.....
"	29	"	57637 W. J. Pendray & Sons, Ltd., Laurel Point, Victoria.	3 "	60	Vendors	.....

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report, (Is not an expres- sion of Opinion).	Results of Analysis.										Remarks and Opinion of the Chief Analyst.
	Moisture in Sample as Received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on Original Package.	
		Total Arsenic as As_2O_3 .	Total Lead as PbO .	Water Soluble Solids.	Water Soluble Arse- nic as As_2O_3 .	Water Soluble Lead as PbO .	Water Soluble Im- purities.	Arsenic (As_2O_3).	Lead PbO .		
No. of Sample.											

JNO. TALBOT, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
43.70	25.88	70.45	1.50	12.00	0.00	1.38	14.56	39.67	Yes.	54847	
41.67	25.88	68.80	4.00	12.00	0.00	3.88	15.09	40.13	Yes.	54849	
39.91	25.88	69.35	1.00	12.00	0.00	0.88	15.55	41.67	Yes.	54878	

THOS. PARKER, INSPECTOR.

0.25	27.31	67.14	1.50	12.00	0.36	1.02			No.	49917	
0.20	28.75	65.12	4.00	60.00	0.54	2.86			No.	49918	
0.15	31.62	65.12	1.00	12.00	0.18	0.70			No.	49920	
0.20	30.19	64.75	2.50	12.00	0.00	2.38			No.	49932	
38.47	28.75	70.09	1.00	12.00	0.18	0.70	17.69	43.14	Yes.	49940	
0.15	28.75	65.12	2.00	24.00	0.18	1.58			No.	49943	

J. F. POWER, INSPECTOR.

0.20	31.62	66.41	2.00	24.00	0.00	1.76			No.	54911	
0.15	32.34	66.22	1.50	12.00	0.18	1.20			No.	54912	

D. O'SULLIVAN, INSPECTOR.

26.96	29.47	66.96	3.50	12.00	0.00	3.38	19.73	48.91	No.	57632	
Electro	0.15	31.62	64.93	0.50	12.00	0.18	0.20		No.	57635	
44.69	28.75	68.80	2.50	0.36	0.18	1.96	15.90	38.06	Yes.	57636	
33.05	25.88	68.80	6.00	12.00	0.36	5.52	17.25	46.06	No.	57637	

